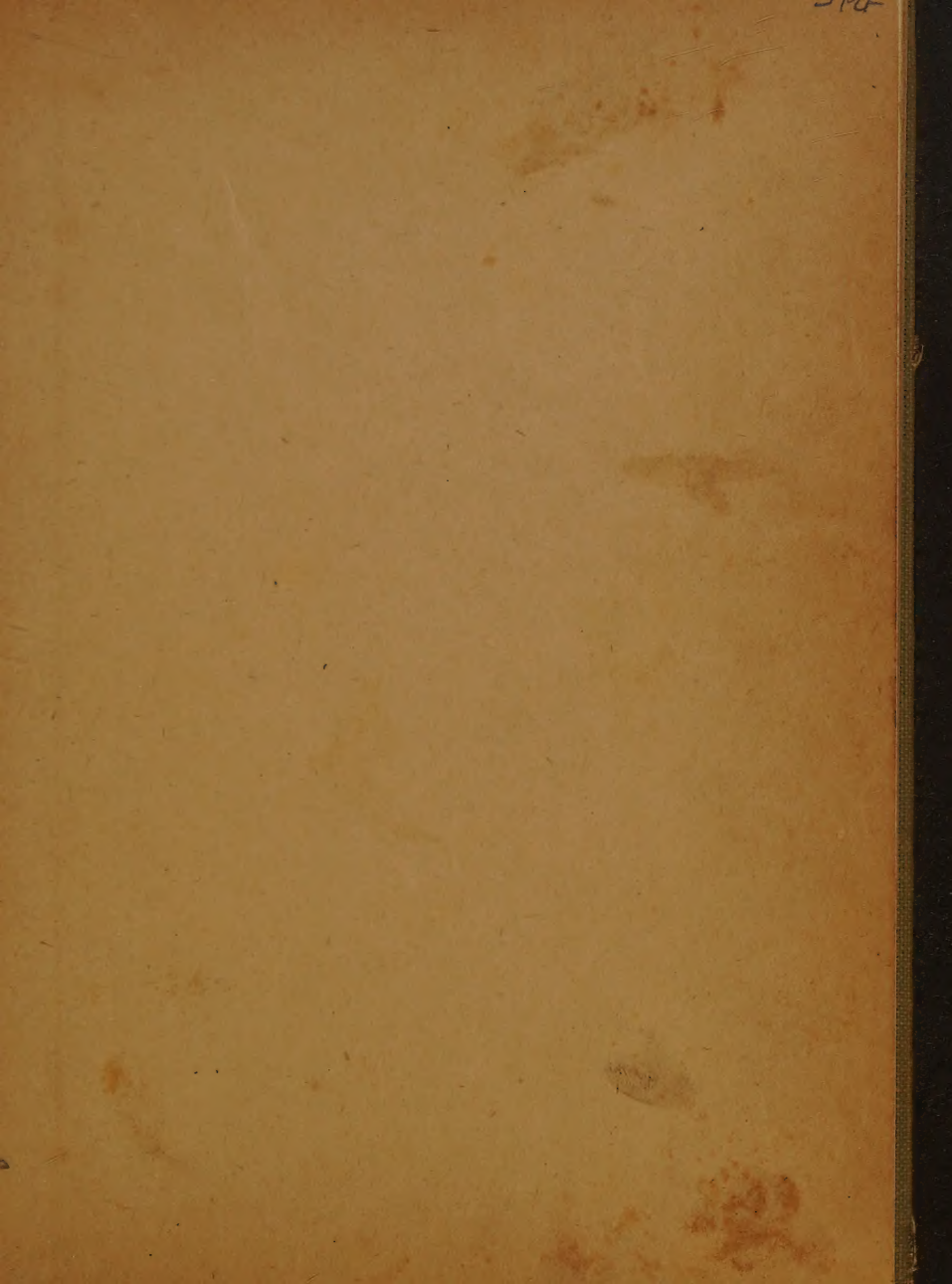


WORK AND PLAY WITH NUMBERS



WENTWORTH · SMITH





WORK AND PLAY WITH NUMBERS

BY
GEORGE WENTWORTH
AND
DAVID EUGENE SMITH



GINN AND COMPANY

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PREFACE

It has been recognized ever since the days of Pestalozzi that children when they first enter school have a taste for number work and also a considerable knowledge of numerical forms. They use numbers in their games, they talk about them, they like to count, and they enjoy a little work and play with numbers within their mental grasp.

On the other hand, children of this age are not ready for such a study of arithmetic as the formal textbook offers. A textbook of that kind would take away their love for number and would place upon them a burden heavier than they could carry.

Not to begin the study of the subject when the child enters school, however, is to say that the child's natural tastes should not be fostered. What we need is to introduce, in an informal and attractive fashion, such number work as is within his grasp at this time.

Experience shows that children can easily learn the combinations in addition, and part of those in multiplication, before taking up a formal study of the subject; in other words, they can cover the work included in this little book. Since the entire multiplication table is sometimes required, it is given at the end of the book, to be developed in the usual manner if necessary.

To meet the need which the experience of teachers has justified, the authors have set forth, informally and in simple language, the number facts that should be mastered. They have not attempted to prepare a textbook of the conventional type, nor yet a mere book of devices to impose upon the teacher certain methods that she cannot profitably use. They have sought to offer to the schools a book that shall serve as a guide and helper both to the teacher and to the pupil, one that shall save labor, furnish a list of reading exercises, and suggest a basis for somewhat informal work with beginners.

It will be observed that the type has been selected with greatest care. A child at this time needs to train the eye to see number relations, and that he may do this without undue visual exertion, a large and heavy type is used. He also needs to write numbers, and when asked to do this the numbers have been put in script. He also needs to read the ordinary printed numerals, and when these appear in sentences they are in the usual printed form. In this way, with a minimum of eye strain, he accomplishes the important results mentioned.

The authors desire to express their appreciation of the artistic work of Miss Hope Dunlap, whose illustrations will, they feel sure, bring delight to thousands of children.

GEORGE WENTWORTH
DAVID EUGENE SMITH

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WORK AND PLAY WITH NUMBERS

CHAPTER I

NUMBER WORK TO 10. COUNTING TO 100

HICKORY, dickory, dock,
The mouse ran up the clock,
The clock struck one,
And down he ran,
Hickory, dickory, dock.

1 one • / *one*

The clock struck one.

I see one clock.

I see one 

I see one ☆ and one ☾

I write one like this: /.



JACK and Jill went up the hill
 To get a pail of water.
 Jack fell down and broke his crown.
 And Jill came tumbling after.

2 two

:

2 two

I see two



Jack and Jill have one



One and one are two. 1

$$1 + 1 = 2 \quad \begin{array}{r} +1 \\ 2 \end{array}$$

Two hands hold the 

One  and one  are two  

Two less one is one. 2

$$2 - 1 = 1 \quad \begin{array}{r} -1 \\ 1 \end{array}$$

Two less two is none.

$$2 - 2 = 0$$

Write :

$$1 + 1 = 2 \quad 1 - 1 = 0 \quad 1 + 0 = 1$$

$$2 - 1 = 1 \quad 2 - 2 = 0 \quad 2 + 0 = 2$$





Baa, baa,
black sheep.
Have you
any wool?

Yes sir, master, three bags full.

3 three



3 *three*

I see three



I see three



and



are



and



are



I see one tree.

I see two trees.

One  and one  are two  
 One  and one  and one  are
 three   

Read:

Two and one are three.

One and two are three.

Three less one is two.

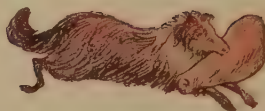
Three less two is one.

Three less none is three.

Write:

$\begin{array}{r} 1 \\ + 1 \\ \hline 2 \end{array}$	$\begin{array}{r} 1 \\ + 2 \\ \hline 3 \end{array}$	$\begin{array}{r} 2 \\ + 1 \\ \hline 3 \end{array}$	$\begin{array}{r} 3 \\ - 1 \\ \hline 2 \end{array}$	$\begin{array}{r} 3 \\ - 2 \\ \hline 1 \end{array}$	$\begin{array}{r} 3 \\ - 3 \\ \hline 0 \end{array}$
---	---	---	---	---	---

$1 + 1 = 2$	$3 - 1 = 2$	$3 + 0 = 3$
$2 + 1 = 3$	$3 - 3 = 0$	$2 - 0 = 2$
$1 + 2 = 3$	$3 - 2 = 1$	$3 - 0 = 3$



Two legs
sat upon
three legs,
With one leg
in his lap.

In comes four legs
And runs away with one leg.
Up jumps two legs,
Catches up three legs,
Throws it after four legs,
And makes him bring back one leg.

4 four :: 4 four

 and  are 
 and  are 

Read :

Two and two are four.

Three and one are four.

One and three are four.

Four less three is one.

Four less two is two.

Four less one is three.

Two legs and two legs are four legs.

Four is one more than three.

Write :

1	3	2	4	4	4
$+3$	$+1$	$+2$	-3	-2	-1
$\hline 4$	$\hline 4$	$\hline 4$	$\hline 1$	$\hline 2$	$\hline 3$

$1 + 3 = 4$	$4 - 3 = 1$	$4 + 0 = 4$
$3 + 1 = 4$	$4 - 1 = 3$	$4 - 0 = 4$
$2 + 2 = 4$	$4 - 2 = 2$	$4 - 4 = 0$



T HIS little pig went to market;
 This little pig stayed at home;
 This little pig had roast beef;
 This little pig had none;
 This little pig said, "Wee, wee!
 I can't find my way home."

5 five



5 five



I see that  and 
are 

Read :

Four and one are five.

One and four are five.

Three and two are five.

Two and three are five.

Write :

$\begin{array}{r} 1 \\ + 4 \\ \hline 5 \end{array}$	$\begin{array}{r} 4 \\ + 1 \\ \hline 5 \end{array}$	$\begin{array}{r} 3 \\ + 2 \\ \hline 5 \end{array}$	$\begin{array}{r} 2 \\ + 3 \\ \hline 5 \end{array}$	$\begin{array}{r} 5 \\ + 0 \\ \hline 5 \end{array}$
---	---	---	---	---

$\begin{array}{r} 5 \\ - 4 \\ \hline 1 \end{array}$	$\begin{array}{r} 5 \\ - 1 \\ \hline 4 \end{array}$	$\begin{array}{r} 5 \\ - 2 \\ \hline 3 \end{array}$	$\begin{array}{r} 5 \\ - 3 \\ \hline 2 \end{array}$	$\begin{array}{r} 5 \\ - 5 \\ \hline 0 \end{array}$
---	---	---	---	---



Read:

Five and one are six.

One and five are six.

Four and two are six.

●●●● and ●● are ●●●●●●

I see that  and  are 

We see that  and 
are 

We see that  and 
are 

Read :

$$6 + 0 = 6$$

$$4 + 2 = 6$$

$$2 + 4 = 6$$

$$5 + 1 = 6$$

$$3 + 3 = 6$$

$$1 + 5 = 6$$

Write :

$\begin{array}{r} 1 \\ + 5 \\ \hline 6 \end{array}$	$\begin{array}{r} 2 \\ + 4 \\ \hline 6 \end{array}$	$\begin{array}{r} 3 \\ + 3 \\ \hline 6 \end{array}$	$\begin{array}{r} 4 \\ + 2 \\ \hline 6 \end{array}$	$\begin{array}{r} 5 \\ + 1 \\ \hline 6 \end{array}$	$\begin{array}{r} 6 \\ + 0 \\ \hline 6 \end{array}$
---	---	---	---	---	---

$\begin{array}{r} 6 \\ - 1 \\ \hline 5 \end{array}$	$\begin{array}{r} 6 \\ - 2 \\ \hline 4 \end{array}$	$\begin{array}{r} 6 \\ - 3 \\ \hline 3 \end{array}$	$\begin{array}{r} 6 \\ - 4 \\ \hline 2 \end{array}$	$\begin{array}{r} 6 \\ - 5 \\ \hline 1 \end{array}$	$\begin{array}{r} 6 \\ - 6 \\ \hline 0 \end{array}$
---	---	---	---	---	---



AS I was going to St. Ives
 I met a group of seven wives;
 Each wife had seven sacks,
 Each sack held seven cats,
 Each cat had seven kits.
 Kits, cats, sacks, and wives,
 How many were going to St. Ives?

7 seven



7 seven

I see



I see





Read :

6 cats and 1 cat are 7 cats.

5 sacks and 2 sacks are 7 sacks.

Four and three are seven.

$$6 + 1 = 7$$

$$1 + 6 = 7$$

$$5 + 2 = 7$$

$$2 + 5 = 7$$

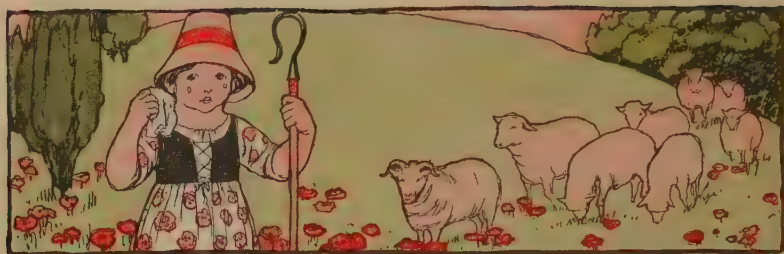
$$4 + 3 = 7$$

$$3 + 4 = 7$$

Write :

6	5	4	3	2	1	0
+ 1	+ 2	+ 3	+ 4	+ 5	+ 6	+ 7
7	7	7	7	7	7	7

7	7	7	7	7	7	7
- 1	- 2	- 3	- 4	- 5	- 6	- 7
6	5	4	3	2	1	0



LITTLE Bo-Peep has lost her sheep
 And can't tell where to find them;
 Leave them alone, and they will come
 home
 And bring their tails behind them.

8 eight



8 eight

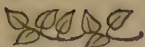
I see        

7 sheep and 1 sheep are 8 sheep.

I see that    

and    

are        

I see that  and  are 

I see that  and 
are 

Read :

7 sheep and 1 sheep are 8 sheep.

6 trees and 2 trees are 8 trees.

5 boys and 3 boys are 8 boys.

4 girls and 4 girls are 8 girls.

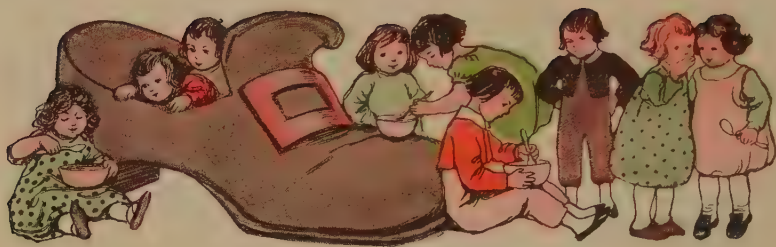
Write :

1	2	3	4	5	6	7	8
+7	+6	+5	+4	+3	+2	+1	+0
8	8	8	8	8	8	8	8
8	8	8	8	8	8	8	8
-1	-2	-3	-4	-5	-6	-7	-8
7	6	5	4	3	2	1	0

$$8 + 0 = 8$$

$$0 + 8 = 8$$

$$8 - 0 = 8$$



There was an old woman
 who lived in a shoe;
 She had so many children
 she did n't know what to do.
 She gave them some broth
 without any bread,
 And whipped them all soundly
 and sent them to bed.

9 nine



9 nine

I see



I see



8 shoes and 1 shoe are 9 shoes.

7 toes and 2 toes are 9 toes.

6 boys and 3 boys are 9 boys.

5 girls and 4 girls are 9 girls.

Read :

8 and 1 are 9. $8 + 1 = 9$

7 and 2 are 9. $7 + 2 = 9$

6 and 3 are 9. $6 + 3 = 9$

5 and 4 are 9. $5 + 4 = 9$

Write :

8	7	6	5	4	3	2	1
$+1$	$+2$	$+3$	$+4$	$+5$	$+6$	$+7$	$+8$
9	9	9	9	9	9	9	9

9	9	9	9	9	9	9	9
-1	-2	-3	-4	-5	-6	-7	-8
8	7	6	5	4	3	2	1

	$10 + 1 = 11$	Eleven
	$10 + 2 = 12$	Twelve
	$10 + 3 = 13$	Thirteen
	$10 + 4 = 14$	Fourteen
	$10 + 5 = 15$	Fifteen
	$10 + 6 = 16$	Sixteen
	$10 + 7 = 17$	Seventeen
	$10 + 8 = 18$	Eighteen
	$10 + 9 = 19$	Nineteen
	$10 + 10 = 20$	Twenty

Read :

12	10	14	16	11
18	15	19	17	13

Write :

$\begin{array}{r} 10 \\ -1 \\ \hline 9 \end{array}$	$\begin{array}{r} 10 \\ -2 \\ \hline 8 \end{array}$	$\begin{array}{r} 10 \\ -3 \\ \hline 7 \end{array}$	$\begin{array}{r} 10 \\ -4 \\ \hline 6 \end{array}$	$\begin{array}{r} 10 \\ -5 \\ \hline 5 \end{array}$	$\begin{array}{r} 10 \\ -6 \\ \hline 4 \end{array}$	$\begin{array}{r} 10 \\ -7 \\ \hline 3 \end{array}$	$\begin{array}{r} 10 \\ -8 \\ \hline 2 \end{array}$
---	---	---	---	---	---	---	---



2 tens = 20 Twenty



3 tens = 30 Thirty

4 tens = 40 Forty

5 tens = 50 Fifty

6 tens = 60 Sixty

7 tens = 70 Seventy

8 tens = 80 Eighty

9 tens = 90 Ninety

10 tens = 100 One hundred

Read :

7	15	9	12	17
20	80	8	30	19
70	16	11	14	60
18	13	40	90	100

Write :

30 thirty

40 forty



$$20 + 1 = 21$$

Twenty-one



$$20 + 2 = 22$$

Twenty-two

$$20 + 3 = 23$$

$$20 + 7 = 27$$

$$20 + 4 = 24$$

$$20 + 8 = 28$$

$$20 + 5 = 25$$

$$20 + 9 = 29$$

$$20 + 6 = 26$$

$$20 + 10 = 30$$

$$30 + 1 = 31$$

Thirty-one

$$40 + 3 = 43$$

Forty-three

Read :

11 12 15 17 19

21 22 25 27 29

31 32 36 38 39

41 42 43 44 47

51 52 55 57 58

61 62 60 66 67

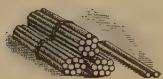
71 72 73 75 77

81 82 80 88 86

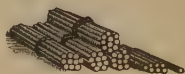
91 92 95 97 99

Read :

20	10	6	9	17
31	90	30	42	60
63	80	54	75	40
50	86	62	70	92
55	88	98	77	99
56	89	74	79	100

Write :

$$30 + 2 = 32$$



$$40 + 8 = 48$$

Write :

$$20 + 6 =$$

$$30 + 5 =$$

$$50 + 7 =$$

$$60 + 1 =$$

$$80 + 2 =$$

$$40 + 3 =$$

$$70 + 5 =$$

$$30 + 2 =$$

$$90 + 9 =$$

$$20 + 7 =$$

$$80 + 6 =$$

$$40 + 4 =$$

$$50 + 5 =$$

$$70 + 8 =$$

$$60 + 7 =$$

Read :

I saw 30 trees.

We saw 42 cars.

We saw 14 birds.

Mary has 20 books.

The boy has 12 apples.

The man has 25 horses.

Read :

17	23	41	19	36
52	82	18	43	68
87	60	29	70	54

Write :

$30 + 9 =$	$40 + 5 =$	$60 + 4 =$
$50 + 3 =$	$90 + 8 =$	$40 + 8 =$
$70 + 1 =$	$60 + 9 =$	$70 + 7 =$
$80 + 6 =$	$30 + 2 =$	$50 + 4 =$
$90 + 5 =$	$20 + 9 =$	$30 + 6 =$

Read :

1 and 1 are — 6 and 1 are —

2 and 1 are — 7 and 1 are —

3 and 1 are — 8 and 1 are —

4 and 1 are — 9 and 1 are —

5 and 1 are — 0 and 1 are —

5 balls and 1 ball are — balls.

7 books and 1 book are — books.

6 books and 1 book are — books.

Add :

2	4	3	5	1	0	8	7	9
<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>

Write :

8 + 1 = 7 + 1 = 1 + 7 = 1 + 5 =

6 + 1 = 9 + 1 = 1 + 3 = 1 + 9 =

0 + 1 = 3 + 1 = 1 + 6 = 1 + 4 =

2 + 1 = 1 + 1 = 1 + 0 = 1 + 2 =

Read :

1 and — are 2 5 and — are 6

2 and — are 3 6 and — are 7

3 and — are 4 7 and — are 8

4 and — are 5 8 and — are 9

5 men - 1 man = — men.

There were 7 birds in the tree.
One flew away. There were — birds
left in the tree.

Read and learn :

1 - 1 = 0 5 - 1 = 4 9 - 1 = 8

2 - 1 = 1 6 - 1 = 5 10 - 1 = 9

3 - 1 = 2 7 - 1 = 6 1 - 0 = 1

4 - 1 = 3 8 - 1 = 7 2 - 0 = 2

Write :

9	8	7	6	5	4	3	2
- /	- /	- /	- /	- /	- /	- /	- /
—	—	—	—	—	—	—	—

1 apple and 3 apples are — apples.

3 books and 3 books are — books.

6 desks and — desks are 9 desks.

4 boats and — boats are 7 boats.

Read and learn :

$$0 + 3 = 3$$

$$3 + 3 = 6$$

$$6 + 3 = 9$$

$$1 + 3 = 4$$

$$4 + 3 = 7$$

$$7 + 3 = 10$$

$$2 + 3 = 5$$

$$5 + 3 = 8$$

$$3 + 0 = 3$$

$$3 - 3 = 0$$

$$6 - 3 = 3$$

$$9 - 3 = 6$$

$$4 - 3 = 1$$

$$7 - 3 = 4$$

$$10 - 3 = 7$$

$$5 - 3 = 2$$

$$8 - 3 = 5$$

$$3 - 0 = 3$$

Write :

4 0 1 5 3 2 6 7

+3 +3 +3 +3 +3 +3 +3 +3

4 8 7 3 9 6 5 10

-3 -3 -3 -3 -3 -3 -3 -3

5 apples and 4 apples are — apples.

4 boys and — boys are 8 boys.



Kate had 7 roses. She gave Ruth 3 roses. How many roses were left?

Read and learn :

$1 + 4 = 5$

$3 + 4 = 7$

$5 + 4 = 9$

$2 + 4 = 6$

$4 + 4 = 8$

$6 + 4 = 10$

$5 - 4 = 1$

$7 - 4 = 3$

$9 - 4 = 5$

$6 - 4 = 2$

$8 - 4 = 4$

$10 - 4 = 6$

Write :

5	2	3	1	4	4	4	4
<u>+4</u>	<u>+4</u>	<u>+4</u>	<u>+4</u>	<u>+4</u>	<u>+0</u>	<u>+1</u>	<u>+2</u>

8	6	4	7	9	5	4	10
<u>-4</u>	<u>-4</u>	<u>-4</u>	<u>-4</u>	<u>-4</u>	<u>-4</u>	<u>-0</u>	<u>-4</u>

How much is 9 less 5?

I have 7 apples and I give away 5 apples. How many apples are left?

From 6 books I take away 5 books.
How many books are left?

Read and learn :

$$0 + 5 = 5$$

$$2 + 5 = 7$$

$$4 + 5 = 9$$

$$1 + 5 = 6$$

$$3 + 5 = 8$$

$$5 + 5 = 10$$

$$5 - 5 = 0$$

$$7 - 5 = 2$$

$$9 - 5 = 4$$

$$6 - 5 = 1$$

$$8 - 5 = 3$$

$$10 - 5 = 5$$

Write :

5	2	3	5	5	4	1	5
<u>+2</u>	<u>+5</u>	<u>+5</u>	<u>+3</u>	<u>+4</u>	<u>+5</u>	<u>+5</u>	<u>+0</u>

+2 +5 +5 +3 +4 +5 +5 +0

8	5	7	9	6	5	10	10
-5	-5	-5	-5	-5	-0	-5	-0

-5 -5 -5 -5 -5 -0 -5 -0

3 fish and 6 fish are — fish.

2 cows and 6 cows are — cows.

3 sheep and — sheep are 9 sheep.

4 boys and — boys are 10 boys.

A man had 8 horses. He sold 6 horses. How many horses were left?

Read and learn :

$$1 + 6 = 7$$

$$4 + 6 = 10$$

$$8 - 6 = 2$$

$$2 + 6 = 8$$

$$0 + 6 = 6$$

$$9 - 6 = 3$$

$$3 + 6 = 9$$

$$7 - 6 = 1$$

$$6 - 6 = 0$$

Write :

3	1	2	0	6	6	6	6
<u>+6</u>	<u>+6</u>	<u>+6</u>	<u>+6</u>	<u>+1</u>	<u>+3</u>	<u>+2</u>	<u>+0</u>

9	6	8	7	6	6	6	6
<u>-6</u>	<u>-6</u>	<u>-6</u>	<u>-6</u>	<u>-5</u>	<u>-2</u>	<u>-3</u>	<u>-4</u>

I see 7 desks.

7 desks and 2 desks are — desks.

20 and 7 are how many?

40 and 7 are how many?

30 birds and 7 birds are — birds.

50 men and — men are 57 men.

Read and learn :

$$0 + 7 = 7$$

$$3 + 7 = 10$$

$$8 - 7 = 1$$

$$1 + 7 = 8$$

$$7 + 0 = 7$$

$$9 - 7 = 2$$

$$2 + 7 = 9$$

$$7 - 7 = 0$$

$$10 - 7 = 3$$

Write :

1	2	3	0	7	7	7	7
<u>+7</u>	<u>+7</u>	<u>+7</u>	<u>+7</u>	<u>+0</u>	<u>+1</u>	<u>+2</u>	<u>+3</u>

8	9	7	7	7	7	10	10
<u>-7</u>	<u>-7</u>	<u>-7</u>	<u>-0</u>	<u>-2</u>	<u>-5</u>	<u>-7</u>	<u>-3</u>

1 cup and 8 cups are — cups.

8 men and 1 man are — men.

1 rose and — roses are 9 roses.

10 roses and — roses are 18 roses.

2 girls and 8 girls are — girls.

From 9 eggs a man took away 8 eggs. There was left — egg.

Read and learn :

$$0 + 8 = 8$$

$$2 + 8 = 10$$

$$9 - 8 = 1$$

$$1 + 8 = 9$$

$$8 + 0 = 8$$

$$8 - 8 = 0$$

Write :

1	8	8	0	8	9	8	10
+ 8	+ 1	+ 0	+ 8	- 8	- 8	- 0	- 8
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

$$40 + 8 =$$

$$50 + 8 =$$

$$10 + 8 =$$

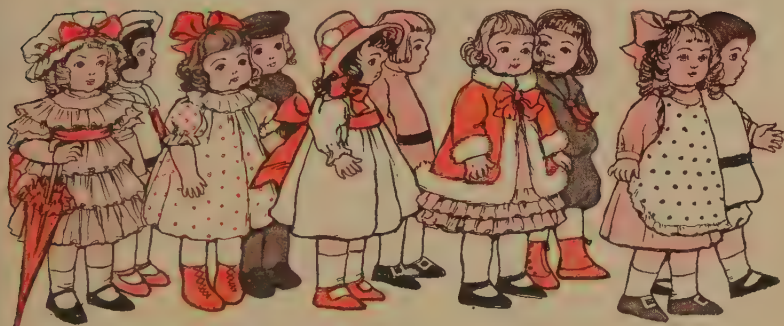
$$70 + 8 =$$

$$30 + 8 =$$

$$60 + 8 =$$

CHAPTER II

ADDITION TABLE COMPLETED



We may count these dolls by 2's.

2 4 6 8 10

We can count fast by 2's.

Let us count the girls by 2's.

Write :

/// • /// // • /// // // • /// // // // • /// // // // //
2 4 6 8 10

Count by 2's from 2 to 20.

Read :

2	4	6	8	10
12	14	16	18	20

It is easy to count by 2's to 30.

Read :

2	4	6	8	10
12	14	16	18	20
22	24	26	28	30

Count by 2's from 2 to 50.

Write :

2	4	6	8	10
12	14	16	18	20
22	24	26	28	30
32	34	36	38	40
42	44	46	48	50

Count by 2's from 2 to 10.

Count by 2's from 2 to 20.

Count by 2's from 2 to 30.

How many are 2 and 2 and 2?

Read :

2	4	6	8	10
12	14	16	18	20
22	24	26	28	30
32	34	36	38	40
42	44	46	48	50

Count by 2's from 50 to 60.

Write :

52	54	56	58	60
62	64	66	68	70
72	74	76	78	80
82	84	86	88	90
92	94	96	98	100



I see 5 cherries in 1 bunch.

I see 10 cherries in 2 bunches.

I see 15 cherries in 3 bunches.

I see 20 cherries in 4 bunches.

Let us count by 5's to 25.

5

10

15

20

25

Let us count by 5's to 35.

Write :

$$5 + 5 = 10$$

$$10 + 5 =$$

$$10 + = 15$$

$$15 + 5 = 20$$

$$20 + 5 =$$

$$15 + = 20$$

$$25 + 5 = 30$$

$$30 + 5 =$$

$$20 + = 25$$

$$35 + 5 = 40$$

$$40 + 5 =$$

$$30 + = 35$$

$$45 + 5 = 50$$

$$50 + 5 =$$

$$40 + = 45$$



Here are 5 cakes.

There are 5 candles on each cake.

On 2 cakes there are 10 candles.

On 3 cakes there are 15 candles.

30

35

40

45

50

Count by 5's from 50 to 75.

Write :

$25 + 5 = 30$

$50 + 5 =$

$75 + 5 =$

$30 + 5 = 35$

$55 + 5 =$

$80 + 5 =$

$35 + 5 = 40$

$60 + 5 =$

$85 + 5 =$

$40 + 5 = 45$

$65 + 5 =$

$90 + 5 =$

$45 + 5 = 50$

$70 + 5 =$

$95 + 5 =$



The chair is 4 feet high.

My school desk is more than 2 feet long.

Kate is 3 feet tall.

Rob is 4 feet tall.

Can you draw a line 1 foot long?

Write :

3 feet + 4 feet are — feet.

5 feet + 3 feet are — feet.

7 feet + 1 foot are — feet.

6 feet and — feet are 8 feet.

4 feet and — feet are 7 feet.

Add :

6 feet

5 feet

3 feet

3 feet

2 feet

3 feet

The book is more
than 7 inches long.

It is more than 5
inches wide.

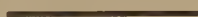
There are 12 inches
in 1 foot.



10 inches and 2 inches are 12
inches.

$$12 \text{ inches} = 1 \text{ foot}$$

This line is one inch long.



Write :

$$12 \text{ inches} = 1 \text{ foot.}$$

$$2 \text{ inches} + 10 \text{ inches} = 12 \text{ inches.}$$

$$11 \text{ inches} + 1 \text{ inch} = 12 \text{ inches.}$$

$$1 \text{ inch} + 11 \text{ inches} = 12 \text{ inches.}$$

$$12 \text{ inches} + 0 \text{ inch} = 12 \text{ inches.}$$



2 pints equal 1 quart.

2 pints of oil make 1 quart of oil.

1 pint of milk and 1 pint of milk
make 1 quart of milk.

We buy milk by the —

We sell cream by the —

Write :

2 pints equal 1 quart.

2 pints and 2 pints are — pints.

5 quarts and 4 quarts are — quarts.

Read:

4 pints and 3 pints are — pints.

5 pints and 2 pints are — pints.

6 pints and 1 pint are — pints.

7 quarts and — quarts are 9 quarts.

3 quarts and — quarts are 8 quarts.

5 quarts and — quarts are 15 quarts.

2 pints = 1 quart

Write:

$$\begin{array}{r} 7 \text{ pints} \\ + 2 \text{ pints} \\ \hline \end{array}$$

$$\begin{array}{r} 7 \text{ pints} \\ - 2 \text{ pints} \\ \hline \end{array}$$

$$\begin{array}{r} 5 \text{ pints} \\ + 2 \text{ pints} \\ \hline \end{array}$$

$$\begin{array}{r} 6 \text{ quarts} \\ + 2 \text{ quarts} \\ \hline \end{array}$$

$$\begin{array}{r} 6 \text{ quarts} \\ - 2 \text{ quarts} \\ \hline \end{array}$$

$$\begin{array}{r} 4 \text{ quarts} \\ + 2 \text{ quarts} \\ \hline \end{array}$$

$$\begin{array}{r} 3 \text{ pints} \\ + 6 \text{ pints} \\ \hline \end{array}$$

$$\begin{array}{r} 7 \text{ pints} \\ + 2 \text{ pints} \\ \hline \end{array}$$

$$\begin{array}{r} 5 \text{ pints} \\ + 4 \text{ pints} \\ \hline \end{array}$$

Read and learn :

$$1 + 2 = 3$$

$$5 + 2 = 7$$

$$9 + 2 = 11$$

$$2 + 2 = 4$$

$$6 + 2 = 8$$

$$10 + 2 = 12$$

$$3 + 2 = 5$$

$$7 + 2 = 9$$

$$2 + 0 = 2$$

$$4 + 2 = 6$$

$$8 + 2 = 10$$

$$0 + 2 = 2$$

Helen has 3 dolls. Her aunt gives her 2 more. Helen then has — dolls.

Emily has 5 roses and picks 2 more.
She then has — roses.

Fred has 7 fish. He catches 2 more.
He then has — fish.

3 quarts + 2 quarts are — quarts.

Write and add:

[illegible]

Read and learn :

$$3 - 2 = 1$$

$$7 - 2 = 5$$

$$11 - 2 = 9$$

$$4 - 2 = 2$$

$$8 - 2 = 6$$

$$12 - 2 = 10$$

$$5 - 2 = 3$$

$$9 - 2 = 7$$

$$2 - 2 = 0$$

$$6 - 2 = 4$$

$$10 - 2 = 8$$

$$2 - 0 = 2$$

A man had 3 quarts of milk. He sold 2 quarts. How many quarts had he left?

John had 12 fish. He lost 2 of them. How many fish had he left?

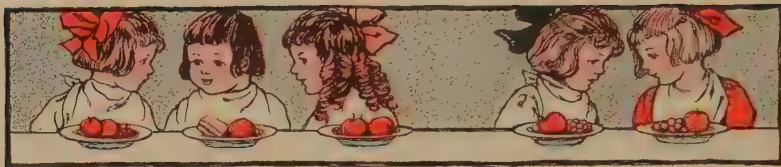
How much is $11 - 2$? $10 - 2$?

9 quarts - 2 quarts are — quarts?

Write :

7 9 5 3 2 6 4 8

-2 -2 -2 -2 -2 -2 -2 -2



How many girls are 3 girls and 2 girls? 2 girls and 3 girls?

How many girls are 1 girl and 3 girls? 3 girls and 1 girl?

Read and learn :

$$1 + 3 = 4$$

$$5 + 3 = 8$$

$$9 + 3 = 12$$

$$2 + 3 = 5$$

$$6 + 3 = 9$$

$$10 + 3 = 13$$

$$3 + 3 = 6$$

$$7 + 3 = 10$$

$$3 + 0 = 3$$

$$4 + 3 = 7$$

$$8 + 3 = 11$$

$$0 + 3 = 3$$

Write and add :

5	3	1	6	4	9	2	8
<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>

7 dolls + 3 dolls are — dolls.

How many roses are
7 roses and 3 roses?

How many roses are
10 roses less 3 roses?

How many are $4 + 3$?

How many are $7 - 3$?

How many are $7 - 4$?



Read and learn :

$$3 - 3 = 0$$

$$7 - 3 = 4$$

$$11 - 3 = 8$$

$$4 - 3 = 1$$

$$8 - 3 = 5$$

$$12 - 3 = 9$$

$$5 - 3 = 2$$

$$9 - 3 = 6$$

$$13 - 3 = 10$$

$$6 - 3 = 3$$

$$10 - 3 = 7$$

$$14 - 3 = 11$$

Write :

8	9	7	4	3	6	5	11
-3	-3	-3	-3	-3	-3	-3	-3

$$11 + 3 =$$

$$12 - 2 =$$

$$9 - 1 =$$



How many are 1 and 4? 2 and 4?

Read and learn :

$$1 + 4 = 5$$

$$5 + 4 = 9$$

$$9 + 4 = 13$$

$$2 + 4 = 6$$

$$6 + 4 = 10$$

$$10 + 4 = 14$$

$$3 + 4 = 7$$

$$7 + 4 = 11$$

$$4 + 0 = 4$$

$$4 + 4 = 8$$

$$8 + 4 = 12$$

$$0 + 4 = 4$$

Write and add :

3

2

7

4

1

6

5

8

$$\begin{array}{r} 4 \\ - \end{array}$$

$$\begin{array}{r} 4 \\ - \end{array}$$

$$\begin{array}{r} 4 \\ - \end{array}$$

$$\begin{array}{r} 4 \\ - \end{array}$$

$$\begin{array}{r} 4 \\ - \end{array}$$

$$\begin{array}{r} 4 \\ - \end{array}$$

$$\begin{array}{r} 4 \\ - \end{array}$$

$$\begin{array}{r} 4 \\ - \end{array}$$

How many horses are 6 horses and 4 horses?

How many horses are 10 horses less
4 horses?

How many books are 3 books and 4 books?

How many books are 7 books less
4 books? 7 books less 3 books?

Read and learn :

$$4 - 4 = 0$$

$$8 - 4 = 4$$

$$12 - 4 = 8$$

$$5 - 4 = 1$$

$$9 - 4 = 5$$

$$13 - 4 = 9$$

$$6 - 4 = 2$$

$$10 - 4 = 6$$

$$14 - 4 = 10$$

$$7 - 4 = 3$$

$$11 - 4 = 7$$

$$15 - 4 = 11$$

Write :

7	5	8	9	6	11	12	4
-4	-4	-4	-4	-4	-4	-4	-4



How many leaves are 4 leaves and 5 leaves?

How many leaves are 5 leaves and 4 leaves? 3 leaves and 5 leaves?

How many are 6 and 5?

How many are 7 and 5?

Read and learn :

$$1 + 5 = 6 \qquad 5 + 5 = 10 \qquad 9 + 5 = 14$$

$$2 + 5 = 7 \qquad 6 + 5 = 11 \qquad 10 + 5 = 15$$

$$3 + 5 = 8 \qquad 7 + 5 = 12 \qquad 5 + 0 = 5$$

$$4 + 5 = 9 \qquad 8 + 5 = 13 \qquad 0 + 5 = 5$$

Write and add :

5 3 4 8 7 9 6 2

5 5 5 5 5 5 5 5
 — — — — — — — —



How many leaves are 6 leaves and 5 leaves?

How many leaves are 11 leaves less 5 leaves?

How many boys are 10 boys less
5 boys? 12 boys less 5 boys?

Read and learn :

$$5 - 5 = 0$$

$$9 - 5 = 4$$

$$13 - 5 = 8$$

$$6 - 5 = 1$$

$$10 - 5 = 5$$

$$14 - 5 = 9$$

$$7 - 5 = 2$$

$$11 - 5 = 6$$

$$15 - 5 = 10$$

$$8 - 5 = 3$$

$$12 - 5 = 7$$

$$16 - 5 = 11$$

Write :

13	14	15	7	5	10	8	6
-5	-5	-5	-5	-5	-5	-5	-5

Add 3 boys and 6 boys.

Add 4 quarts and 6 quarts.

Add 5 books and 6 books.

Add 6 fish and 6 fish.

Add 7 men and 6 men.

Add 8 marbles and 6 marbles.

Read and learn:

$$1 + 6 = 7 \quad 5 + 6 = 11 \quad 9 + 6 = 15$$

$$2 + 6 = 8 \quad 6 + 6 = 12 \quad 10 + 6 = 16$$

$$3 + 6 = 9 \quad 7 + 6 = 13 \quad 6 + 0 = 6$$

$$4 + 6 = 10 \quad 8 + 6 = 14 \quad 0 + 6 = 6$$

Write and add:

6	7	4	8	9	3	5	2
<u>6</u>	<u>6</u>	<u>6</u>	<u>6</u>	<u>6</u>	<u>6</u>	<u>6</u>	<u>6</u>

$$6 + 5 =$$

$$6 + 4 =$$

$$6 + 6 =$$

$$6 + 7 =$$

$$6 + 9 =$$

$$6 + 10 =$$



6 and 4 are how many?

6 from 10 are how many?

4 from 10 are how many?

10 from 10 are how many?

Read and learn:

$$6 - 6 = 0 \quad 10 - 6 = 4 \quad 14 - 6 = 8$$

$$7 - 6 = 1 \quad 11 - 6 = 5 \quad 15 - 6 = 9$$

$$8 - 6 = 2 \quad 12 - 6 = 6 \quad 16 - 6 = 10$$

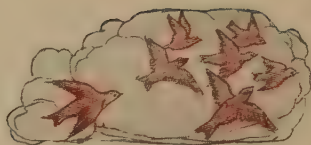
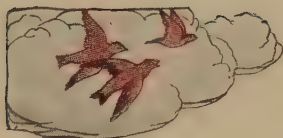
$$9 - 6 = 3 \quad 13 - 6 = 7 \quad 17 - 6 = 11$$

Write:

$$\begin{array}{r} 10 \\ -6 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ -6 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ -6 \\ \hline \end{array} \quad \begin{array}{r} 13 \\ -6 \\ \hline \end{array} \quad \begin{array}{r} 12 \\ -6 \\ \hline \end{array} \quad \begin{array}{r} 14 \\ -6 \\ \hline \end{array} \quad \begin{array}{r} 15 \\ -6 \\ \hline \end{array} \quad \begin{array}{r} 11 \\ -6 \\ \hline \end{array}$$

$$11 - 3 = \quad 11 - 5 = \quad 11 - 6 =$$

$$13 - 5 = \quad 13 - 4 = \quad 13 - 6 =$$



Add 3 birds and 7 birds.

Add 7 birds and 3 birds.

How many are 5 birds and 7 birds?

Add 6 and 7. Add 7 and 6.

Read and learn :

$1 + 7 = 8$

$5 + 7 = 12$

$9 + 7 = 16$

$2 + 7 = 9$

$6 + 7 = 13$

$10 + 7 = 17$

$3 + 7 = 10$

$7 + 7 = 14$

$7 + 0 = 7$

$4 + 7 = 11$

$8 + 7 = 15$

$0 + 7 = 7$

Write and add :

7 5 3 2 6 8 9 4

7 7 7 7 7 7 7 7

$7 + 8 =$

$7 + 9 =$

$7 + 10 =$

How many are 4 and 7?

How many are 11 - 7?

How many are 7 and 7?

How many are 14 - 7?

How many are 8 and 7?

How many pencils are 15 pencils less 7 pencils?

Read and learn :

$$7 - 7 = 0 \quad 11 - 7 = 4 \quad 15 - 7 = 8$$

$$8 - 7 = 1 \quad 12 - 7 = 5 \quad 16 - 7 = 9$$

$$9 - 7 = 2 \quad 13 - 7 = 6 \quad 17 - 7 = 10$$

$$10 - 7 = 3 \quad 14 - 7 = 7 \quad 18 - 7 = 11$$

Write :

$$\begin{array}{r} 9 \quad 7 \quad 10 \quad 14 \quad 11 \quad 15 \quad 8 \quad 13 \\ -7 \quad -7 \quad -7 \quad -7 \quad -7 \quad -7 \quad -7 \quad -7 \\ \hline \end{array}$$

$$16 - 7 = \quad 12 - 7 = \quad 11 - 7 =$$

How many are 1 and 8?

How many are 2 and 8?

How many desks are 5 desks and 8 desks?

How many girls are 1 girl and 1 girl and 8 girls?

How many are 8 and 8? 9 and 8?

Read and learn:

$1 + 8 = 9$

$5 + 8 = 13$

$9 + 8 = 17$

$2 + 8 = 10$

$6 + 8 = 14$

$10 + 8 = 18$

$3 + 8 = 11$

$7 + 8 = 15$

$8 + 0 = 8$

$4 + 8 = 12$

$8 + 8 = 16$

$0 + 8 = 8$

Write and add:

9	2	8	3	1	6	4	5
8	8	8	8	8	8	8	8
—	—	—	—	—	—	—	—

$8 + 7 =$

$8 + 6 =$

$8 + 5 =$

How many are 4 and 8?

How many blocks are 12 blocks less
8 blocks?

How many marbles are 3 marbles
and 8 marbles?

How many marbles are 11 marbles
less 8 marbles?

Read and learn :

$$8 - 8 = 0 \quad 12 - 8 = 4 \quad 16 - 8 = 8$$

$$9 - 8 = 1 \quad 13 - 8 = 5 \quad 17 - 8 = 9$$

$$10 - 8 = 2 \quad 14 - 8 = 6 \quad 18 - 8 = 10$$

$$11 - 8 = 3 \quad 15 - 8 = 7 \quad 19 - 8 = 11$$

Write :

17	15	12	10	13	14	11	16
-8	-8	-8	-8	-8	-8	-8	-8

$$12 - 8 =$$

$$11 - 8 =$$

$$14 - 8 =$$

Add 1 and 9. Add 2 and 9.

Add 3 and 9. Add 4 and 9.

Add 5 books and 9 books.

Add 2 men and 9 men.

Add 3 hats and 9 hats.

Add 4 pencils and 9 pencils.

How many apples are 5 apples and 9 apples?

Add 6 desks and 9 desks.

Read and learn :

$$1 + 9 = 10$$

$$5 + 9 = 14$$

$$9 + 9 = 18$$

$$2 + 9 = 11$$

$$6 + 9 = 15$$

$$10 + 9 = 19$$

$$3 + 9 = 12$$

$$7 + 9 = 16$$

$$9 + 0 = 9$$

$$4 + 9 = 13$$

$$8 + 9 = 17$$

$$0 + 9 = 9$$

Write and add:

3 6 9 2 8 4 7 5

q q q q q q q q

How many pears are 5 pears and 10 pears?

How many pears are 15 pears less 10 pears? 15 pears less 5 pears?

Read and learn :

$1 + 10 = 11$

$5 + 10 = 15$

$9 + 10 = 19$

$2 + 10 = 12$

$6 + 10 = 16$

$10 + 10 = 20$

$3 + 10 = 13$

$7 + 10 = 17$

$10 + 0 = 10$

$4 + 10 = 14$

$8 + 10 = 18$

$0 + 10 = 10$

$11 - 10 = 1$

$15 - 10 = 5$

$19 - 10 = 9$

$12 - 10 = 2$

$16 - 10 = 6$

$20 - 10 = 10$

$13 - 10 = 3$

$17 - 10 = 7$

$21 - 10 = 11$

$14 - 10 = 4$

$18 - 10 = 8$

$22 - 10 = 12$

Write :

$10 + 7 =$

$10 + 9 =$

$10 + 8 =$

$17 - 10 =$

$19 - 10 =$

$18 - 10 =$

Add 2 cubes and 3 cubes.

Add 2 tens and 3 tens.

Add 20 and 30; 30 and 20.

2 cubes	2 tens	20
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<u>3 cubes</u>	<u>3 tens</u>	<u>30</u>
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5 cubes	5 tens	50
---------	--------	----

Add 20 and 40; 20 and 60.

Write and add:

10	10	10	10	10	10	10	10
----	----	----	----	----	----	----	----

<u>10</u>	<u>20</u>	<u>40</u>	<u>30</u>	<u>50</u>	<u>70</u>	<u>80</u>	<u>90</u>
-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------

20	20	20	20	30	30	30	30
----	----	----	----	----	----	----	----

<u>10</u>	<u>40</u>	<u>60</u>	<u>50</u>	<u>10</u>	<u>30</u>	<u>20</u>	<u>50</u>
-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------

40	40	50	50	60	70	80	90
----	----	----	----	----	----	----	----

<u>20</u>	<u>30</u>	<u>20</u>	<u>10</u>	<u>30</u>	<u>20</u>	<u>10</u>	<u>10</u>
-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------

Add 10 boys and 4 boys.

Add 20 books and 4 books.

Add 30 chairs and 4 chairs.

Read :

40	10	20	30	60	70	50
<u>+2</u>	<u>+4</u>	<u>+5</u>	<u>+3</u>	<u>+7</u>	<u>+8</u>	<u>+9</u>
42	14	25	33	67	78	59

Write and add :

10	20	30	60	40	90	70	80
<u>7</u>	<u>2</u>	<u>8</u>	<u>9</u>	<u>6</u>	<u>4</u>	<u>3</u>	<u>8</u>

90	70	20	30	60	10	20	40
<u>3</u>	<u>2</u>	<u>8</u>	<u>7</u>	<u>6</u>	<u>9</u>	<u>4</u>	<u>3</u>

60	20	80	30	20	40	50	70
<u>10</u>	<u>30</u>	<u>10</u>	<u>50</u>	<u>60</u>	<u>20</u>	<u>30</u>	<u>20</u>

Add 2 and 3. Add 12 and 3.

Add 4 and 2. Add 24 and 2.

Add 3 and 5. Add 43 and 5.

Read :

2	12	22	4	24	3	43
$\begin{array}{r} +3 \\ \hline 5 \end{array}$	$\begin{array}{r} +3 \\ \hline 15 \end{array}$	$\begin{array}{r} +3 \\ \hline 25 \end{array}$	$\begin{array}{r} +2 \\ \hline 6 \end{array}$	$\begin{array}{r} +2 \\ \hline 26 \end{array}$	$\begin{array}{r} +5 \\ \hline 8 \end{array}$	$\begin{array}{r} +5 \\ \hline 48 \end{array}$

Write and add :

3	13	23	33	6	16	26	56
$\begin{array}{r} 4 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ \hline \end{array}$

5	15	35	75	7	17	47	97
$\begin{array}{r} 3 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ \hline \end{array}$

2	12	42	82	3	13	73	63
$\begin{array}{r} 5 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \hline \end{array}$

Add 3 and 5.

Add 20 and 10.

See how we add 23 and 15.

$$\begin{array}{r} 23 \\ + 15 \\ \hline 38 \end{array}$$

I see that 23 and 15 are 38.

Read :

12	21	30	22	34	52	61
<u>+ 11</u>	<u>+ 12</u>	<u>+ 29</u>	<u>+ 32</u>	<u>+ 41</u>	<u>+ 27</u>	<u>+ 14</u>
23	33	59	54	75	79	75

Write and add :

22	31	72	15	61	27	36	51
<u>11</u>	<u>31</u>	<u>15</u>	<u>22</u>	<u>33</u>	<u>21</u>	<u>22</u>	<u>30</u>
13	27	36	41	73	33	41	68
<u>13</u>	<u>20</u>	<u>41</u>	<u>58</u>	<u>12</u>	<u>46</u>	<u>41</u>	<u>20</u>
15	25	35	42	41	32	52	61
<u>33</u>	<u>33</u>	<u>23</u>	<u>51</u>	<u>32</u>	<u>41</u>	<u>47</u>	<u>28</u>

How much is $7 - 4$? 57

How much is $5 - 0$? -4

How much is $57 - 4$? 53

I see that 57 less 4 is 53.

Read :

4	34	54	84	7	27	97
<u>-2</u>	<u>-2</u>	<u>-2</u>	<u>-2</u>	<u>-4</u>	<u>-4</u>	<u>-4</u>
2	32	52	82	3	23	93

Write :

8	18	48	68	9	19	39	69
<u>-5</u>	<u>-5</u>	<u>-5</u>	<u>-5</u>	<u>-3</u>	<u>-3</u>	<u>-3</u>	<u>-3</u>

7	17	37	57	6	16	56	96
<u>-5</u>	<u>-5</u>	<u>-5</u>	<u>-5</u>	<u>-1</u>	<u>-1</u>	<u>-1</u>	<u>-1</u>

9	19	69	89	8	18	58	88
<u>-6</u>	<u>-6</u>	<u>-6</u>	<u>-6</u>	<u>-7</u>	<u>-7</u>	<u>-7</u>	<u>-7</u>

How much is $8 - 5$? 38

How much is $30 - 10$? - 15

See how we take 15 from 38. 23

I see that 38 less 15 is 23.

Read :

22	34	47	58	62	79	83
<u>- 11</u>	<u>- 12</u>	<u>- 26</u>	<u>- 35</u>	<u>- 21</u>	<u>- 38</u>	<u>- 20</u>
11	22	21	23	41	41	63

Write :

37	42	81	68	93	48	29
<u>- 12</u>	<u>- 31</u>	<u>- 50</u>	<u>- 42</u>	<u>- 31</u>	<u>- 24</u>	<u>- 16</u>

29	36	48	72	94	82	77
<u>- 12</u>	<u>- 14</u>	<u>- 21</u>	<u>- 20</u>	<u>- 33</u>	<u>- 40</u>	<u>- 32</u>

$$48 - 26 = \quad 78 - 26 = \quad 74 - 20 =$$

$$37 - 21 = \quad 67 - 32 = \quad 89 - 46 =$$

Add $1 + 1 + 1$.

Add $2 + 3$. Add $2 + 3 + 1$.

Add $3 + 5$. Add $3 + 5 + 1$.

Read:

1	1	1	4	2	1	1	3
1	3	5	1	2	4	1	3
<u>1</u>	<u>2</u>	<u>3</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>3</u>
3	6	9	7	7	9	7	9

Write and add:

2	3	1	3	4	2	5	7
2	2	2	1	1	1	1	1
<u>2</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>4</u>	<u>4</u>	<u>2</u>	<u>1</u>

$$2 + 1 + 2 =$$

$$3 + 4 + 1 =$$

$$3 + 3 + 2 =$$

$$4 + 3 + 2 =$$

$$4 + 1 + 1 =$$

$$5 + 2 + 0 =$$

$$5 + 2 + 1 =$$

$$6 + 0 + 3 =$$

How much is $1 + 1 + 1$? 31

How much is $3 + 2 + 1$? 21

How much is $30 + 20 + 10$? 11

How much is $31 + 21 + 11$? 63

I see that $31 + 21 + 11 = 63$.

Write and add:

30 30 32 33 34 34

20 21 22 21 22 21

10 10 10 12 11 12

41 41 42 50 51 51

21 21 23 10 10 10

21 22 22 20 20 24

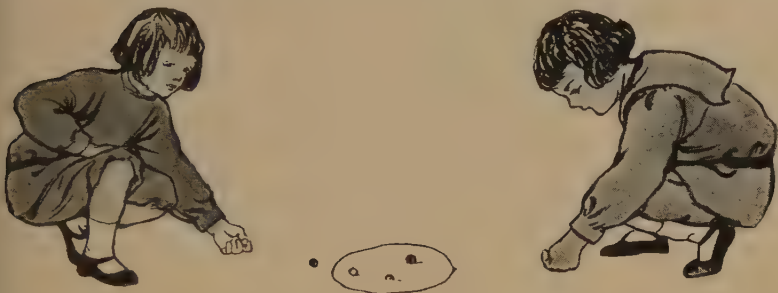
60 61 63 63 64 65

10 10 10 12 12 12

20 20 20 20 21 22

CHAPTER III

PRACTICE ON THE ADDITION TABLE



If Rob has 9 marbles and John has 10, how many do both have?

Read and add:

5	2	1	6	3	8	7	4	9
<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>

Write and add:

/	/	/	/	/	/	/	/	/
/	6	2	9	4	7	3	8	5
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Count by 2's like this: 2, 4, 6, 8, 10, and so on to 50.

Count by 2's beginning with 1, thus:
1, 3, 5, 7, 9, 11, 13, 15, 17, 19.

• Write the 2's from 2 to 50, like this: 2, 4, 6, 8, 10, and so on.

Write 1, 3, 5, 7, 9, 11, to 51.

Write and add:

[illegible]

2 2 2 2 2 2 2 2

1	31	7	47	8	38	48	68
2	2	2	2	2	2	2	2

2 2 2 2 2 2 2 2

3	43	53	9	49	69	79	89
2	2	2	2	2	2	2	2

2 2 2 2 2 2 2 2

If you have 7 apples and use 2 of them, how many are left?

If 9 of you stand and then 2 sit,
how many are left standing?

Read :

5	9	2	6	3	8	4	7
-2	-2	-2	-2	-2	-2	-2	-2

Write and subtract :

[illegible]

[illegible]

[illegible]

Read and subtract:

$6 - 3 =$ $9 - 3 =$ $4 - 3 =$ $12 - 3 =$

$5 - 3 =$ $3 - 3 =$ $10 - 3 =$ $11 - 3 =$

$8 - 3 =$ $7 - 3 =$ $13 - 3 =$ $14 - 3 =$

Write and subtract:

3 13 23 33 4 14 34 74

3 3 3 3 3 3 3 3

5 15 25 75 6 16 36 86

3 3 3 3 3 3 3 3

7 17 47 87 8 18 58 68

3 3 3 3 3 3 3 3

9 19 39 69 10 20 30 40

3 3 3 3 3 3 3 3

11 21 31 41 12 22 32 42

3 3 3 3 3 3 3 3

Count by 3's, beginning with 3,
thus: 3, 6, 9, 12, and so on to 21.

Count by 3's, beginning with 1,
thus: 1, 4, 7, 10, and so on to 22.

Count by 3's, beginning with 2,
thus: 2, 5, 8, 11, and so on to 23.

Read and learn:

3 6 9 12 15 18 21 24 27 30

1 4 7 10 13 16 19 22 25 28

2 5 8 11 14 17 20 23 26 29

Write and add:

1 2 3 4 5 7 8 9

3 3 3 3 3 3 3 3

13 16 29 52 65 58 61 84

3 3 3 3 3 3 3 3

How many boys are 7 boys and 3 boys? 27 boys and 3 boys?

How many girls are 12 girls less
3 girls? 32 girls less 3 girls?

If you have 9 roses and I give you 3 roses, how many roses will you have?

How much is $9 + 3$? $19 + 3$? $39 + 3$?

Write and add:

21	32	73	55	76	87	69	80
3	3	3	3	3	3	3	3

Write and subtract :

10	11	13	14	15	17	18	19
3	3	3	3	3	3	3	3

[illegible]

Read and subtract :

$5 - 4 =$

$6 - 4 =$

$12 - 4 =$

$20 - 4 =$

$9 - 4 =$

$10 - 4 =$

$22 - 4 =$

$24 - 4 =$

$7 - 4 =$

$11 - 4 =$

$13 - 4 =$

$27 - 4 =$

$8 - 4 =$

$21 - 4 =$

$23 - 4 =$

$26 - 4 =$

Write and subtract :

$4 \quad 14 \quad 24 \quad 5 \quad 15 \quad 35 \quad 6 \quad 16$

$4 \quad 4 \quad 4 \quad 4 \quad 4 \quad 4 \quad 4 \quad 4$

$7 \quad 17 \quad 47 \quad 77 \quad 8 \quad 18 \quad 58 \quad 88$

$4 \quad 4 \quad 4 \quad 4 \quad 4 \quad 4 \quad 4 \quad 4$

$19 \quad 49 \quad 10 \quad 20 \quad 30 \quad 11 \quad 21 \quad 41$

$4 \quad 4 \quad 4 \quad 4 \quad 4 \quad 4 \quad 4 \quad 4$

$12 \quad 22 \quad 32 \quad 42 \quad 13 \quad 23 \quad 33 \quad 43$

$4 \quad 4 \quad 4 \quad 4 \quad 4 \quad 4 \quad 4 \quad 4$

Count by 4's, beginning with 4, thus: 4, 8, 12, and so on to 20.

Count by 4's, beginning with 1, thus: 1, 5, 9, and so on to 17.

Count by 4's, beginning with 2, thus: 2, 6, 10, and so on to 18.

Write and learn:

4	8	12	16	20
24	28	32	36	40
1	5	9	13	17
21	25	29	33	37
2	6	10	14	18
22	26	30	34	38
3	7	11	15	19
23	27	31	35	39

How many chickens are 16 chickens and 4 chickens? 36 and 4? 46 and 4?

How many inches are 7 inches and 3 inches? 17 and 3? 57 and 3?

If you have 10 pears and eat 2 of them, how many pears have you left?

Add 27 and 3; 26 and 4; 29 and 1; 28 and 2; 30 and 0.

Write and add:

21	41	32	13	33	12	41	21
31	20	20	12	22	20	11	30
<u>22</u>	<u>10</u>	<u>12</u>	<u>12</u>	<u>11</u>	<u>30</u>	<u>11</u>	<u>20</u>

Write and subtract:

24	33	27	36	28	87	92	99
<u>12</u>	<u>11</u>	<u>14</u>	<u>12</u>	<u>14</u>	<u>12</u>	<u>30</u>	<u>33</u>

Read and add:

$4 + 5 =$

$9 + 5 =$

$1 + 5 =$

$13 + 5 =$

$3 + 5 =$

$6 + 5 =$

$10 + 5 =$

$16 + 5 =$

$5 + 5 =$

$7 + 5 =$

$11 + 5 =$

$17 + 5 =$

$8 + 5 =$

$2 + 5 =$

$12 + 5 =$

$15 + 5 =$

Write and add:

/	//	2/	2	/2	72	3	/3
5	5	5	5	5	5	5	5

5 5 5 5 5 5 5 5

4	14	5	15	25	6	66	86
5	5	5	5	5	5	5	5

5 5 5 5 5 5 5 5

7	17	27	47	8	18	38	58
<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	5	5	5	5

5 5 5 5 5 5 5 5

9	19	49	79	10	60	80	90
5	5	5	5	5	5	5	5

5 5 5 5 5 5 5 5

Read and subtract:

$7 - 5 =$ $9 - 5 =$ $15 - 5 =$ $19 - 5 =$

$8 - 5 =$ $10 - 5 =$ $14 - 5 =$ $17 - 5 =$

$5-5=$ $11-5=$ $12-5=$ $18-5=$

$6 - 5 =$ $13 - 5 =$ $16 - 5 =$ $20 - 5 =$

Write and subtract:

5 15 95 6 16 46 7 17

5 5 5 5 5 5 5 5

8 18 98 9 19 79 10 80

5 5 5 5 5 5 5 5

11 21 31 81 12 22 42 72

5 5 5 5 5 5 5 5

13 23 33 43 14 24 34 74

5 5 5 5 5 5 5 5

Read, adding 5 to each number :

1	4	6	5	2	8	9	3	7
11	24	36	45	22	18	29	33	17
31	44	26	15	12	38	49	23	37
61	14	56	35	32	78	19	13	77

Count by 5's, beginning with 5, thus:
5, 10, 15, 20, and so on to 50.

Count by 5's, beginning with 1, thus:
1, 6, 11, 16, 21, and so on to 51.

Count by 5's, beginning with 2, thus:
2, 7, 12, 17, 22, and so on to 52.

Count by 5's, beginning with 3, thus:
3, 8, 13, 18, 23, and so on to 48.

Count by 5's, beginning with 4, thus:
4, 9, 14, 19, 24, and so on to 49.

Write the 5's from 0 to 100, thus:
0, 5, 10, 15, and so on.



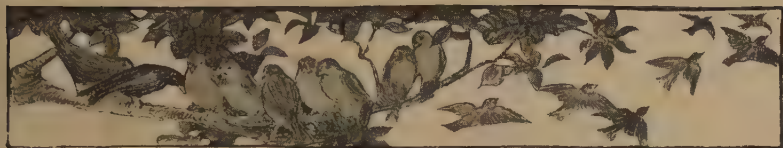
How many birds are 5 birds and 6 birds? 6 birds and 5 birds?

How many birds are 11 birds less 5 birds? 11 birds less 6 birds?

Here are 11 birds, and 6 of them are in a tree. The rest are flying. How many birds are flying?

How many are 6 and 5? 16 and 5? 26 and 5? 76 and 5?

How many are 6 less 5? 26 less 5? 86 less 5? 76 less 5?



How many birds are 9 birds and 7 birds? 7 birds and 9 birds?

How many birds are 16 birds less 7 birds? 16 birds less 9 birds?

If 16 birds were on the branch and 7 flew away, how many birds were left on the branch?

How many are 9 and 7? 19 and 7? 39 and 7? 59 and 7?

How many are 16 less 7? 26 less 7? 36 less 7? 66 less 7?

Write :

$$1 + 4 + 2 + 6 =$$

$$3 + 3 + 4 + 2 =$$

$$5 + 1 + 7 + 1 =$$

$$2 + 4 + 3 + 1 =$$

Read and add:

$3 + 6 =$

$6 + 6 =$

$7 + 6 =$

$16 + 6 =$

$2 + 6 =$

$5 + 6 =$

$10 + 6 =$

$13 + 6 =$

$1 + 6 =$

$8 + 6 =$

$11 + 6 =$

$15 + 6 =$

$4 + 6 =$

$9 + 6 =$

$12 + 6 =$

$14 + 6 =$

Write and add:

1	71	2	12	42	3	13	33
6	6	6	6	6	6	6	6

6 6 6 6 6 6 6 6

4	74	5	15	35	6	16	26
6	6	6	6	6	6	6	6

6 6 6 6 6 6 6 6

7	17	57	77	8	18	68	88
6	6	6	6	6	6	6	6

6 6 6 6 6 6 6 6

9 19 29 89 10 40 70 90
6 6 6 6 6 6 6 6

6 6 6 6 6 6 6 6

Read and subtract:

$7 - 6 =$

$11 - 6 =$

$13 - 6 =$

$19 - 6 =$

$6 - 6 =$

$10 - 6 =$

$16 - 6 =$

$21 - 6 =$

$8 - 6 =$

$14 - 6 =$

$15 - 6 =$

$20 - 6 =$

$9 - 6 =$

$12 - 6 =$

$17 - 6 =$

$18 - 6 =$

Write and subtract:

$6 - 6 =$

$16 - 6 =$

$76 - 6 =$

$7 - 6 =$

$17 - 6 =$

$87 - 6 =$

$8 - 6 =$

$18 - 6 =$

$6 - 6 =$

$6 - 6 =$

$6 - 6 =$

$6 - 6 =$

$6 - 6 =$

$6 - 6 =$

$6 - 6 =$

$6 - 6 =$

$9 - 6 =$

$19 - 6 =$

$79 - 6 =$

$89 - 6 =$

$10 - 6 =$

$20 - 6 =$

$70 - 6 =$

$90 - 6 =$

$6 - 6 =$

$6 - 6 =$

$6 - 6 =$

$6 - 6 =$

$6 - 6 =$

$6 - 6 =$

$6 - 6 =$

$6 - 6 =$

$11 - 6 =$

$31 - 6 =$

$12 - 6 =$

$22 - 6 =$

$82 - 6 =$

$13 - 6 =$

$23 - 6 =$

$63 - 6 =$

$6 - 6 =$

$6 - 6 =$

$6 - 6 =$

$6 - 6 =$

$6 - 6 =$

$6 - 6 =$

$6 - 6 =$

$6 - 6 =$

$14 - 6 =$

$24 - 6 =$

$34 - 6 =$

$74 - 6 =$

$15 - 6 =$

$25 - 6 =$

$35 - 6 =$

$85 - 6 =$

$6 - 6 =$

$6 - 6 =$

$6 - 6 =$

$6 - 6 =$

$6 - 6 =$

$6 - 6 =$

$6 - 6 =$

$6 - 6 =$

Read and add:

$3 + 7 =$

$7 + 7 =$

$9 + 7 =$

$16 + 7 =$

$5 + 7 =$

$4 + 7 =$

$12 + 7 =$

$13 + 7 =$

$1 + 7 =$

$8 + 7 =$

$11 + 7 =$

$14 + 7 =$

$2 + 7 =$

$6 + 7 =$

$10 + 7 =$

$15 + 7 =$

Write and add:

1 11 41 81 2 12 82 92

7 7 7 7 7 7 7 7

3 13 63 83 4 14 74 84

7 7 7 7 7 7 7 7

5 15 25 75 6 16 26 76

7 7 7 7 7 7 7 7

7 17 27 8 18 28 9 69

7 7 7 7 7 7 7

Read and subtract:

$9-7=$ $13-7=$ $14-7=$ $20-7=$

$7-7=$ $10-7=$ $17-7=$ $22-7=$

$8-7=$ $11-7=$ $16-7=$ $21-7=$

$12-7=$ $15-7=$ $18-7=$ $19-7=$

Write and subtract:

7	17	67	8	18	98	9	19
7	7	7	7	7	7	7	7

7 7 7 7 7 7 7 7

[illegible]

7 7 7 7 7 7 7 7

12	72	13	23	93	14	24	64
7	7	7	7	7	7	7	7

7 7 7 7 7 7 7 7

[illegible]

7 7 7 7 7 7 7 7

Read and add:

$6 + 8 =$

$3 + 8 =$

$2 + 8 =$

$11 + 8 =$

$8 + 8 =$

$9 + 8 =$

$5 + 8 =$

$13 + 8 =$

$4 + 8 =$

$1 + 8 =$

$10 + 8 =$

$15 + 8 =$

$0 + 8 =$

$7 + 8 =$

$12 + 8 =$

$14 + 8 =$

Write and add:

[illegible]

[illegible]

[illegible]

[illegible]

Read and subtract:

$9 - 8 =$ $14 - 8 =$ $15 - 8 =$ $23 - 8 =$

$8 - 8 =$ $12 - 8 =$ $17 - 8 =$ $20 - 8 =$

$10 - 8 =$ $13 - 8 =$ $19 - 8 =$ $22 - 8 =$

$11 - 8 =$ $16 - 8 =$ $18 - 8 =$ $21 - 8 =$

Write and subtract:

[illegible]

[illegible]

[illegible]

[illegible]



Read and add:

$4 + 9 =$

$9 + 9 =$

$5 + 9 =$

$11 + 9 =$

$6 + 9 =$

$1 + 9 =$

$8 + 9 =$

$10 + 9 =$

$2 + 9 =$

$7 + 9 =$

$3 + 9 =$

$12 + 9 =$

Write and add:

[illegible]

[illegible]

[illegible]

9	19	29	79	10	40	80	90
9	9	9	9	9	9	9	9



Read and subtract:

$14 - 9 =$ $9 - 9 =$ $16 - 9 =$ $19 - 9 =$

$11 - 9 =$ $15 - 9 =$ $13 - 9 =$ $18 - 9 =$

$12 - 9 =$ $17 - 9 =$ $10 - 9 =$ $20 - 9 =$

Write and subtract:

19 49 10 20 30 11 21 81

q q q q q q q q

12 22 62 13 23 73 24 94

9 9 9 9 9 9 9 9

15 25 85 95 16 26 66 86

q q q q q q q q

17 27 57 87 18 28 78 98

q q q q q q q q

How many pencils are 2 pencils and 3 pencils and 4 pencils?

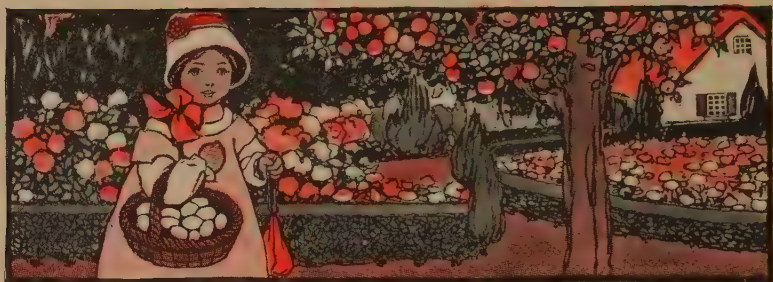
How many chairs are 10 chairs less 2 chairs? less 2 chairs more?

Write and add:

12	22	32	64	82	53	72	81
<u>11</u>	<u>12</u>	<u>14</u>	<u>21</u>	<u>14</u>	<u>24</u>	<u>12</u>	<u>16</u>

2	4	3	1	1	2	3	4
1	2	4	5	6	2	3	3
3	1	1	1	1	2	1	1
<u>1</u>	<u>1</u>	<u>1</u>	<u>2</u>	<u>1</u>	<u>2</u>	<u>1</u>	<u>2</u>

21	31	12	34	25	33	16	17
11	21	13	12	31	22	20	30
20	14	21	21	20	11	30	20
<u>12</u>	<u>20</u>	<u>22</u>	<u>30</u>	<u>12</u>	<u>11</u>	<u>33</u>	<u>12</u>



Here are 12 eggs.

Here are a dozen eggs.

12 eggs are a dozen eggs.

How many eggs are a dozen eggs
less 2 eggs?

How many eggs are a dozen eggs
and 2 eggs?

Write :

$$1 \text{ dozen} + 1 =$$

$$1 \text{ dozen} - 1 =$$

$$1 \text{ dozen} + 2 =$$

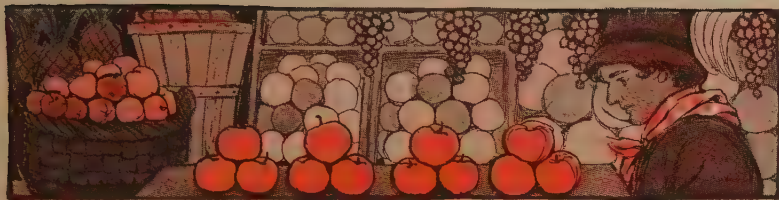
$$1 \text{ dozen} - 2 =$$

$$1 \text{ dozen} + 3 =$$

$$1 \text{ dozen} - 3 =$$

$$1 \text{ dozen} + 4 =$$

$$1 \text{ dozen} - 4 =$$



12 apples are 1 dozen apples.

How many apples are 1 dozen apples
less 3 apples?

How many apples are 1 dozen apples
less 6 apples?

Write and learn :

24 are 2 dozen. 48 are 4 dozen.

36 are 3 dozen. 60 are 5 dozen.

Write :

2 dozen + 6 = 2 dozen - 4 =

3 dozen + 4 = 3 dozen - 6 =

4 dozen + 2 = 4 dozen - 8 =

5 dozen + 1 = 5 dozen - 1 =

Here are two lines. _____

The first line is longer _____
than the second line.

The second line is shorter than the first line.

Which is your longest finger?

Which is your shortest finger?

Which desk is longer, your desk or the teacher's desk?

Who is tallest in this class?

Who is shortest in this class?

Who is taller, you or the teacher?

Who is taller, Elizabeth or Ralph?
Elizabeth or the teacher?

Which is more, a pint or a quart?

Which is shorter, an inch or a foot? Which is the longer?

Which is more, 10 or a dozen?

Which is less, 6 or 10? 6 or 4?

Which is more, 3 quarts of milk
or 2 quarts of milk?

Which is less, 3 pints or 4 pints?

How much more is 5 than 2?

How much less is 8 than 10?

How much less is 9 than a dozen?

How much more is 16 oranges than
a dozen oranges?

How many eggs must you add to
20 eggs to make 2 dozen eggs?

How many eggs must you take
from 40 eggs to leave 3 dozen eggs?

If you have 18 inches of ribbon
and I have 2 inches more than you,
how many inches of ribbon have I?



The children are weighing a book and some candy.

The book weighs a little less than a pound.

How many pounds do you weigh?

What do we buy by the pound?

Can you tell me something that is sold by the ounce?

16 ounces = 1 pound

4 or 5 pencils weigh about 1 ounce.

How many ounces in 1 pound and 4 ounces?

Read :

1 pound = 16 ounces.

1 pound and 4 ounces = — ounces.

1 pound less 6 ounces = — ounces.

1 pound and 10 ounces = — ounces.

1 pound less 10 ounces = — ounces.

Write :

12 pounds + 14 pounds =

15 pounds + 13 pounds =

24 pounds + 31 pounds =

43 pounds + 24 pounds =

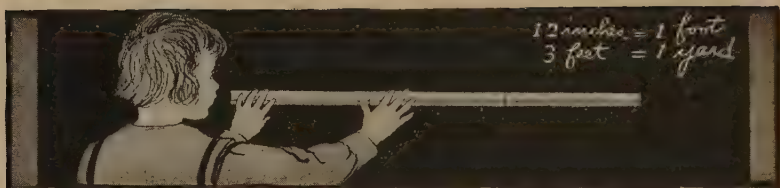
36 pounds - 12 pounds =

47 pounds - 25 pounds =

58 pounds - 32 pounds =

68 pounds - 41 pounds =

12 ounces + 3 ounces + 20 ounces =



Do you know how cloth is measured?

How many feet are there in 1 yard?

How many inches are there in 1 foot? in 1 yard?

Draw a line 1 inch long on the blackboard.

Draw a line 1 foot long.

Draw a line 1 yard long.

Read and learn :

12 inches = 1 foot

3 feet = 1 yard

Write :

3 feet + 3 feet = — feet.

I find that 2 yards = — feet.

Read :

3 feet are equal to — yard.

6 feet are equal to — yards.

1 yard and 1 foot are — feet.

1 yard and 2 feet are — feet.

1 yard less 1 foot is — feet.

1 yard less 2 feet is — foot.

We buy cloth by the yard.

Write :

12 inches and 12 inches and 12 inches are — inches.

In 1 foot there are — inches.

In 3 feet there are 12 inches and 12 inches and 12 inches, or — inches.

In 1 yard there are — inches.

1 yard of cloth is the same as 36 inches of cloth.



The girl adds 12 and 21.

12 and 21 are how many?

Write and add:

21	42	51	23	32	15	61	81
31	20	26	40	31	42	15	4
<u>20</u>	<u>17</u>	<u>12</u>	<u>16</u>	<u>25</u>	<u>12</u>	<u>12</u>	<u>10</u>

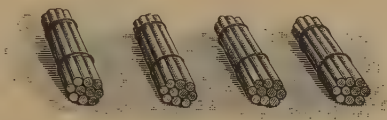
12	11	21	17	14	42	52	64
3	4	2	10	30	12	2	1
2	2	3	20	3	11	3	2
<u>21</u>	<u>40</u>	<u>50</u>	<u>2</u>	<u>11</u>	<u>14</u>	<u>30</u>	<u>20</u>

Write and subtract:

36	42	66	72	87	75	96	99
<u>12</u>	<u>21</u>	<u>33</u>	<u>40</u>	<u>61</u>	<u>34</u>	<u>35</u>	<u>88</u>

CHAPTER IV

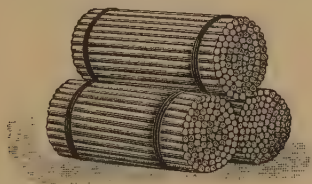
NUMBERS TO 1000. MULTIPLICATION



Here are 4 tens, or 40.

10 tens make 1 hundred.

We write 1 hundred like this: *100*.



Here are 3 hundreds.

We write 3 hundreds like this: *300*.

Read :

200

300

400

500

600

700

800

900

Write in figures :

1 hundred. 6 hundred.

5 hundred. 3 hundred.

9 hundred. 7 hundred.

We write $100 + 50$ like this: *150*.

We write $100 + 5$ like this: *105*.

Write as single numbers :

100 + 60 200 + 50 300 + 4

100 + 90 200 + 70 700 + 6

Read :

250 260 860 930 908

370 570 750 620 806

450 320 480 870 709

Write in figures :

2 hundred 50. 5 hundred 6.

3 hundred 20. 7 hundred 8.

We write $300 + 40 + 2$ like this: 342.

Here are shown 342 splints.



Write as single numbers :

$$300 + 50 + 4$$

$$600 + 80 + 6$$

$$400 + 30 + 2$$

$$700 + 60 + 8$$

$$500 + 70 + 3$$

$$800 + 90 + 8$$

Read :

270 560 346 923 408

275 567 481 744 607

375 867 696 527 706

Write in figures :

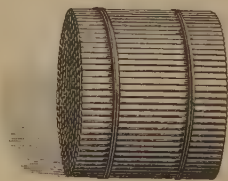
2 hundred 42. 7 hundred 26.

5 hundred 87. 9 hundred 31.

The name for 10 hundred is one thousand.

We write 1 thousand like this: *1000*.

In this bundle there are 10 hundred splints, or 1000 splints.



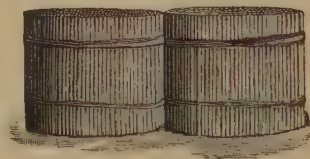
We may count by thousands:

1 thousand, 1000,

2 thousand, 2000,

3 thousand, 3000,

and so on.



Write in figures :

2 hundred 75.

3 hundred 33.

3 hundred 65.

5 hundred 67.

6 hundred 66.

7 hundred 55.

8 hundred 35.

9 hundred 90.

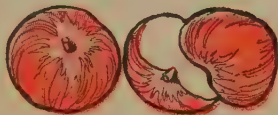
9 hundred 99.

1 thousand.

Here is an apple.

Here is an apple that has been cut in two.

Each part of the apple is half of it.



We write one half like this: $\frac{1}{2}$

How many halves of an apple make a whole apple?

How much is $\frac{1}{2}$ and $\frac{1}{2}$?

If I have $\frac{1}{2}$ of a pound of sugar, and put $\frac{1}{2}$ of a pound with it, how much sugar do I have?

How much is $\frac{1}{2}$ of a foot and $\frac{1}{2}$ of a foot? $\frac{1}{2}$ of a day and $\frac{1}{2}$ of a day?

I see a circle.

I see $\frac{1}{2}$ of a circle.



2 halves of a circle make a circle.



Here are a dozen rabbits. If we take half of them away, how many rabbits do we take away?

How many are $\frac{1}{2}$ of a dozen?

How many are $\frac{1}{2}$ of 2 things?

How many are $\frac{1}{2}$ of 4 things?

How many inches in 1 foot?

How many inches in $\frac{1}{2}$ of 1 foot?

How many inches in $\frac{1}{2}$ of 8 inches?

In a class of 10 children, $\frac{1}{2}$ are boys.
How many boys are there?

In a room having 12 desks, $\frac{1}{2}$ are in one row. How many desks are there in this row?

This square has been
cut into 4 equal parts.

$\frac{1}{4}$	$\frac{1}{4}$
$\frac{1}{4}$	$\frac{1}{4}$

Each of these equal parts is one fourth of the square.

We write one fourth like this: $\frac{1}{4}$.

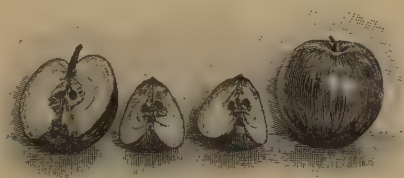
We may call $\frac{1}{4}$ a quarter.

In the large square there are how many fourths? how many quarters?

How many fourths are there in $\frac{1}{2}$ of the large square?

I see $\frac{1}{2}$ of an apple.

I see $\frac{1}{4}$ of an apple.



I see $\frac{1}{2}$ of an apple, 2 quarters of an apple, and an apple.



I see a slice of melon.

I see a third of a slice of melon.

3 thirds of a slice make a whole slice.

We write one third like this: $\frac{1}{3}$.

How much is $1 + 1 + 1$?

How much is $\frac{1}{3}$ of 3?

How much is $2 + 2 + 2$?

How much is $\frac{1}{3}$ of 6?

How many 3's make 9?

How much is $\frac{1}{3}$ of 9?

Write and learn:

$\frac{1}{3}$ of 3 is 1.

$\frac{1}{2}$ of a dozen is 6.

$\frac{1}{3}$ of 6 is 2.

$\frac{1}{4}$ of a dozen is 3.

$\frac{1}{3}$ of 9 is 3.

$\frac{1}{3}$ of a dozen is 4.

We see these numbers on the clock:

I = 1	IV or IIII = 4	VII = 7	X = 10
II = 2	V = 5	VIII = 8	XI = 11
III = 3	VI = 6	IX = 9	XII = 12

Read the numbers
on this clock.

Can you tell what
time it is now by
the school clock?



Read:

I	VI	II	IV
V	VII	XI	IX
X	VIII	XII	III

Write the clock numbers for:

1	7	2	9
5	6	12	4
10	8	11	3

How many are $1 + 1$?

How many are 2 ones?

How many are 3 ones?

How many are 2 times 1?

How many are 3 times 1?

How many are 4 times 1?

We write

2×1 for 2 times 1, or $1 + 1$.

3×1 for 3 times 1, or $1 + 1 + 1$.

4×1 for 4 times 1, or $1 + 1 + 1 + 1$.

Read and learn :

$$1 \times 1 = 1$$

$$6 \times 1 = 6$$

$$2 \times 1 = 2$$

$$7 \times 1 = 7$$

$$3 \times 1 = 3$$

$$8 \times 1 = 8$$

$$4 \times 1 = 4$$

$$9 \times 1 = 9$$

$$5 \times 1 = 5$$

$$10 \times 1 = 10$$

There are 5 boys. Each has 1 rose.
How many roses have they all?

There are 4 men. Each has 1 hat.
How many hats have they all?

There are 6 girls. Each has 1 book.
How many books have they all?

There are 8 boys. Each has 1 coat.
How many coats have they all?

Write :

$$/ + / + / + / + / = 5 \times / =$$

$$/ + / + / + / + / + / = 6 \times / =$$

$$/ + / + / + / + / + / + / = 7 \times / =$$

$$3 \times / =$$

$$2 \times / =$$

$$6 \times / =$$

$$5 \times / =$$

$$9 \times / =$$

$$8 \times / =$$

$$7 \times / =$$

$$4 \times / =$$

$$/ \times / =$$



How many blocks are 2 blocks and 2 blocks?

Then tell me how many blocks are 2 times 2 blocks.

How many blocks are 2 blocks and 2 blocks and 2 blocks?

Then tell me how many blocks are 3 times 2 blocks.

We write 3 times 2 like this:

$$3 \times 2 = 6$$

There are 2 boys. Each has 2 apples.
How many apples have they both?

There are 3 girls. Each has 2 buns.
How many buns have they all?

There are 4 boys. Each has 2 caps.
How many caps have they all?

How many blocks are 2×2 blocks?

How many blocks are $\frac{1}{2}$ of 2 blocks?

How many blocks are $\frac{1}{2}$ of 4 blocks?

Count by 2's from 2 to 20.

How many are 4 twos? 5 twos?

Write and learn :

$$1 \times 2 = 2$$

$$6 \times 2 = 12$$

$$2 \times 2 = 4$$

$$7 \times 2 = 14$$

$$3 \times 2 = 6$$

$$8 \times 2 = 16$$

$$4 \times 2 = 8$$

$$9 \times 2 = 18$$

$$5 \times 2 = 10$$

$$10 \times 2 = 20$$

Count by 2's from 2 to 20.

How many 2's make 4?

How many 2's make 6?

How many 2's make 10?

How many 2's make 16?

I have a piece of ribbon 10 inches long. Into how many 2-inch pieces can I cut it?

If I wish to put a dozen roses in vases, putting 2 roses in each vase, how many vases shall I need?

How many inches are $\frac{1}{2}$ of 4 inches?

How many pints are $\frac{1}{2}$ of 8 pints?

Write :

$$5 \times 2 =$$

$$2 \times 2 =$$

$$7 \times 2 =$$

$$3 \times 2 =$$

$$4 \times 2 =$$

$$9 \times 2 =$$

Count by 3's from 3 to 15.

How many are 2 threes?

How many are 3 threes?

How many are 4 threes?

How many are 5 threes?

How many 3's do

you see in 6?

How many 3's do you see in 12?

How many 3's do you see in 15?

How much is $\frac{1}{2}$ of 6? $\frac{1}{2}$ of 12?

How much is $\frac{1}{3}$ of 6? $\frac{1}{3}$ of 9?

How much is $\frac{1}{3}$ of 12? $\frac{1}{3}$ of 15?

Write and learn:

$$1 \times 3 = 3$$

$$3 \times 3 = 9$$

$$5 \times 3 = 15$$

$$2 \times 3 = 6$$

$$4 \times 3 = 12$$

$$6 \times 3 = 18$$

Frank's sister is 3 years old. Frank is 3 times as old. How old is he?

How many sides has a triangle?

George made 2 triangles, using a stick for each side.

How many sticks did he use for both triangles?



How many triangles can be made from 12 sticks, using one for each side?

Count by 3's from 3 to 30.

Write and learn:

$$1 \times 3 = 3$$

$$2 \times 3 = 6$$

$$3 \times 3 = 9$$

$$4 \times 3 = 12$$

$$5 \times 3 = 15$$

$$6 \times 3 = 18$$

$$7 \times 3 = 21$$

$$8 \times 3 = 24$$

$$9 \times 3 = 27$$

$$10 \times 3 = 30$$

Three sticks are needed to make a triangle. How many sticks are needed to make 5 triangles?

If one notebook weighs 3 ounces, what will 6 notebooks weigh?

How many 3's make 9?

How much is $\frac{1}{3}$ of 6?

How much is $\frac{1}{3}$ of 9? $\frac{1}{3}$ of 12?

How many blocks are $\frac{1}{3}$ of 9 blocks?

$\frac{1}{3}$ of 12 blocks?

Write :

$$2 \times 3 =$$

$$5 \times 3 =$$

$$9 \times 3 =$$

$$3 \times 3 =$$

$$8 \times 3 =$$

$$7 \times 3 =$$

$$6 \times 3 =$$

$$4 \times 3 =$$

$$10 \times 3 =$$

$$3 + 3 + 3 + 3 = 4 \times 3 =$$

$$3 + 3 + 3 + 3 + 3 = 5 \times 3 =$$



How many kittens are 4 kittens and 4 kittens?

How many kittens are 2×4 kittens?

How many are 2	4
fours? 3 fours?	4 4

How many are 4	4 4 4
fours? 5 fours?	4 4 4 4

How many are 5	$\frac{4}{4}$	$\frac{4}{8}$	$\frac{4}{12}$	$\frac{4}{16}$	$\frac{4}{20}$
fours and 1 four?					

How many 4's do you see in 8?

How many 4's do you see in 12?

How many 4's do you see in 16?

Count by 4's from 4 to 20.

Count by 4's from 20 to 40.

How many are 5 fours?

How many are 6 fours?

How many are 8 fours?

If Ralph makes 3 squares, using a stick for each side, how many sticks will he need in all?

How many squares can Ralph make from 8 sticks, using one stick for each side?

Write and learn:

$$1 \times 4 = 4$$

$$6 \times 4 = 24$$

$$2 \times 4 = 8$$

$$7 \times 4 = 28$$

$$3 \times 4 = 12$$

$$8 \times 4 = 32$$

$$4 \times 4 = 16$$

$$9 \times 4 = 36$$

$$5 \times 4 = 20$$

$$10 \times 4 = 40$$



These children are playing ringtoss.

Each ring on the post counts 5.

How much do 2 rings count?

How much do 3 rings count?

How much do 4 rings count?

Count by 5's from 5 to 20.

How many days do you go to school
in a week? in 4 weeks?

How many 5's do
you see in 15? 5 5

How many 5's in 20? 5 5 5

How many 5's in 25? 5 5 5 5

Count by 5's from $\frac{5}{5}$ $\frac{5}{10}$ $\frac{5}{15}$ $\frac{5}{20}$ $\frac{5}{25}$
5 to 50.

How many days are 6×5 days?

Write and learn :

$$1 \times 5 = 5$$

$$6 \times 5 = 30$$

$$2 \times 5 = 10$$

$$7 \times 5 = 35$$

$$3 \times 5 = 15$$

$$8 \times 5 = 40$$

$$4 \times 5 = 20$$

$$9 \times 5 = 45$$

$$5 \times 5 = 25$$

$$10 \times 5 = 50$$

Write :

$$7 \times 5 =$$

$$4 \times 5 =$$

$$6 \times 5 =$$

$$8 \times 5 =$$

$$3 \times 5 =$$

$$2 \times 5 =$$

$$9 \times 5 =$$

$$10 \times 5 =$$

Multiply by 2:

3 pounds	3 tens	30
3 quarts	30	$\frac{2}{60}$

Multiply by 4:

2 yards	2 tens	20
2 inches	20	$\frac{4}{80}$

Multiply by 3:

4 feet	4 pints	4 tens
4 yards	4 inches	40

When we multiply 40
by 3, we say: " $3 \times 0 = 0$,
 $3 \times 4 = 12$," and we write
the answer 120.

$$\begin{array}{r} 40 \\ 3 \\ \hline 120 \end{array}$$

Write and multiply:

2×10	3×20	4×30	5×30
2×50	3×50	4×40	5×40

Multiply by 2:

30 2 32 40 3 43

When we multiply 43
by 2, we say: " $2 \times 3 = 6$,
 $2 \times 4 = 8$," and we write the
answer 86.

43
 2
—
86

Write and multiply:

$$2 \times 21$$

$$5 \times 11$$

$$7 \times 21$$

$$3 \times 21$$

$$6 \times 20$$

$$8 \times 30$$

$$4 \times 12$$

$$7 \times 20$$

$$9 \times 21$$

$\begin{array}{r} 22 \\ 3 \\ \hline \end{array}$	$\begin{array}{r} 23 \\ 2 \\ \hline \end{array}$	$\begin{array}{r} 24 \\ 2 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ 3 \\ \hline \end{array}$	$\begin{array}{r} 31 \\ 4 \\ \hline \end{array}$	$\begin{array}{r} 60 \\ 5 \\ \hline \end{array}$	$\begin{array}{r} 61 \\ 5 \\ \hline \end{array}$
--	--	--	--	--	--	--

If a triangle is 12 inches on a side,
how far is it around the triangle?

If a square is 22 feet on a side,
how far is it around the square?

How much is 3×2 ? 3×20 ?

How much is 3×20 and 3×2 ?

How much is 3×22 ?

22

See how we multiply

3

22 by 3.

66

Write and multiply:

10	11	12	13	14	20	21	22
<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>

23	24	30	31	32	33	34	40
<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>

41	42	43	44	11	12	13	20
<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>

21	23	30	31	32	33	11	12
<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>4</u>	<u>4</u>

How much is 3×3 ?

How much is 3×4 ? 3×40 ?

How much is 3×43 ?

See how we multiply

43 by 3.

$$\begin{array}{r} 43 \\ 3 \\ \hline 129 \end{array}$$

Write and multiply :

$$\begin{array}{r} 50 \quad 51 \quad 52 \quad 53 \quad 40 \quad 41 \quad 42 \quad 50 \\ \underline{2} \quad \underline{2} \quad \underline{2} \quad \underline{2} \quad \underline{3} \quad \underline{3} \quad \underline{3} \quad \underline{3} \end{array}$$

$$\begin{array}{r} 20 \quad 21 \quad 22 \quad 30 \quad 31 \quad 32 \quad 40 \quad 41 \\ \underline{4} \quad \underline{4} \quad \underline{4} \quad \underline{4} \quad \underline{4} \quad \underline{4} \quad \underline{4} \quad \underline{4} \end{array}$$

$$\begin{array}{r} 10 \quad 11 \quad 20 \quad 21 \quad 30 \quad 31 \quad 40 \quad 41 \\ \underline{5} \quad \underline{5} \quad \underline{5} \quad \underline{5} \quad \underline{5} \quad \underline{5} \quad \underline{5} \quad \underline{5} \end{array}$$

$$\begin{array}{r} 10 \quad 11 \quad 20 \quad 21 \quad 41 \quad 51 \quad 51 \quad 51 \\ \underline{6} \quad \underline{6} \quad \underline{6} \quad \underline{6} \quad \underline{6} \quad \underline{7} \quad \underline{8} \quad \underline{9} \end{array}$$

How much is 2×3 ? 2×30 ?

How much is 2×30 and 2×3 ?

How much is 2×33 ? 2×32 ?

How much is 3×1 ? 3×10 ?

How much is 3×12 ?

Write and multiply :

13	23	33	43	14	24	34	44
<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>

12	22	32	42	52	13	23	53
<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>

40	41	50	51	40	41	50	51
<u>8</u>	<u>8</u>	<u>8</u>	<u>8</u>	<u>6</u>	<u>6</u>	<u>6</u>	<u>6</u>

50	50	40	41	41	44	53	54
<u>7</u>	<u>9</u>	<u>6</u>	<u>6</u>	<u>3</u>	<u>2</u>	<u>2</u>	<u>2</u>

Write and add:

$$23 \quad 34 \quad 41 \quad 93 \quad 33 \quad 52 \quad 61 \quad 82$$

$$62 \quad 23 \quad 52 \quad 4 \quad 41 \quad 32 \quad 26 \quad 10$$

$$\underline{2} \quad \underline{1} \quad \underline{3} \quad \underline{2} \quad \underline{4} \quad \underline{5} \quad \underline{2} \quad \underline{6}$$

$$3 \quad 2 \quad 3 \quad 4 \quad 5 \quad 8 \quad 3 \quad 6$$

$$4 \quad 6 \quad 1 \quad 2 \quad 4 \quad 2 \quad 4 \quad 2$$

$$\underline{8} \quad \underline{3} \quad \underline{9} \quad \underline{7} \quad \underline{6} \quad \underline{1} \quad \underline{9} \quad \underline{3}$$

$$23 \quad 13 \quad 24 \quad 42 \quad 34 \quad 62 \quad 83 \quad 91$$

$$\underline{12} \quad \underline{32} \quad \underline{41} \quad \underline{42} \quad \underline{44} \quad \underline{26} \quad \underline{15} \quad \underline{8}$$

Write and subtract:

$$48 \quad 29 \quad 37 \quad 64 \quad 58 \quad 75 \quad 89 \quad 96$$

$$\underline{27} \quad \underline{12} \quad \underline{21} \quad \underline{40} \quad \underline{32} \quad \underline{43} \quad \underline{54} \quad \underline{72}$$

$$59 \quad 68 \quad 73 \quad 91 \quad 82 \quad 74 \quad 39 \quad 55$$

$$\underline{27} \quad \underline{32} \quad \underline{41} \quad \underline{50} \quad \underline{61} \quad \underline{22} \quad \underline{14} \quad \underline{25}$$

See how we add larger numbers.

How much is $2 + 3$? 223

How much is $7 + 2$? 172

How much is $1 + 3$? 395

How much is $223 + 172$?

Write and add:

100 120 123 123 123

200 200 200 210 214

221 342 426 535 683

327 253 351 252 302

597 889 666 548 782

202 110 22 51 16

How many feet are 125 feet and 42 feet? 342 feet and 135 feet?

See how we add other numbers.

How much is $8 + 4$? 24

How much is $6 + 2$? $\begin{array}{r} 68 \\ 12 \end{array}$

We say: " $8 + 4 = 12$,"

and we write 2. Then $\begin{array}{r} 8 \\ 92 \end{array}$

we say: " $1 + 6 + 2 = 9$," 24

and we write 9. $\begin{array}{r} 68 \\ 92 \end{array}$

How much is $24 + 68$? $\begin{array}{r} 68 \\ 92 \end{array}$

Write and add:

$\begin{array}{r} 34 \\ 25 \end{array}$ $\begin{array}{r} 34 \\ 26 \end{array}$ $\begin{array}{r} 34 \\ 27 \end{array}$ $\begin{array}{r} 82 \\ 17 \end{array}$ $\begin{array}{r} 87 \\ 18 \end{array}$ $\begin{array}{r} 81 \\ 19 \end{array}$ $\begin{array}{r} 87 \\ 19 \end{array}$ $\begin{array}{r} 36 \\ 47 \end{array}$

$\begin{array}{r} 24 \\ 37 \end{array}$ $\begin{array}{r} 42 \\ 29 \end{array}$ $\begin{array}{r} 68 \\ 25 \end{array}$ $\begin{array}{r} 57 \\ 36 \end{array}$ $\begin{array}{r} 45 \\ 37 \end{array}$ $\begin{array}{r} 63 \\ 28 \end{array}$ $\begin{array}{r} 89 \\ 9 \end{array}$ $\begin{array}{r} 29 \\ 39 \end{array}$

How many boys are 18 boys and 16 boys? 37 boys and 25 boys?

Add 18 cubes and 2 cubes.

How many houses are 17 houses and 16 houses?

How many girls are 48 girls and 27 girls? 52 girls and 18 girls?

How many birds are 28 birds and 32 birds? 35 birds and 48 birds?

Write and add:

28	36	48	72	63	49	68	36
<u>27</u>	<u>54</u>	<u>29</u>	<u>18</u>	<u>19</u>	<u>32</u>	<u>15</u>	<u>27</u>

36	81	27	46	55	73	38	46
<u>26</u>	<u>29</u>	<u>38</u>	<u>27</u>	<u>35</u>	<u>19</u>	<u>26</u>	<u>29</u>

52	57	63	91	83	58	37	66
<u>29</u>	<u>33</u>	<u>29</u>	<u>9</u>	<u>8</u>	<u>29</u>	<u>37</u>	<u>28</u>

Let us subtract larger numbers.

How much is $5 - 2$? 395

How much is $9 - 7$? 172

How much is $3 - 1$? 223

We see that $395 - 172 = 223$.

How many feet are 275 feet less
25 feet? 275 feet less 125 feet?

Write and subtract:

600	640	648	648	648
<u>200</u>	<u>200</u>	<u>200</u>	<u>220</u>	<u>225</u>

429	536	807	609	707
<u>107</u>	<u>205</u>	<u>402</u>	<u>305</u>	<u>202</u>

547	682	936	439	822
<u>142</u>	<u>261</u>	<u>314</u>	<u>208</u>	<u>410</u>

From 45 cubes take 30 cubes.

How many miles are 65 miles less
60 miles? 265 miles less 160 miles?

How many feet are 136 feet less
25 feet? 336 feet less 125 feet?

How many pounds are 255 pounds
less 140 pounds?

Write and subtract:

528	732	698	496	321
<u>206</u>	<u>302</u>	<u>427</u>	<u>343</u>	<u>201</u>

339	489	687	926	559
<u>206</u>	<u>227</u>	<u>342</u>	<u>515</u>	<u>233</u>

578	692	891	307	558
<u>227</u>	<u>341</u>	<u>620</u>	<u>106</u>	<u>258</u>

The complete addition table is inserted for purposes of review and reference.

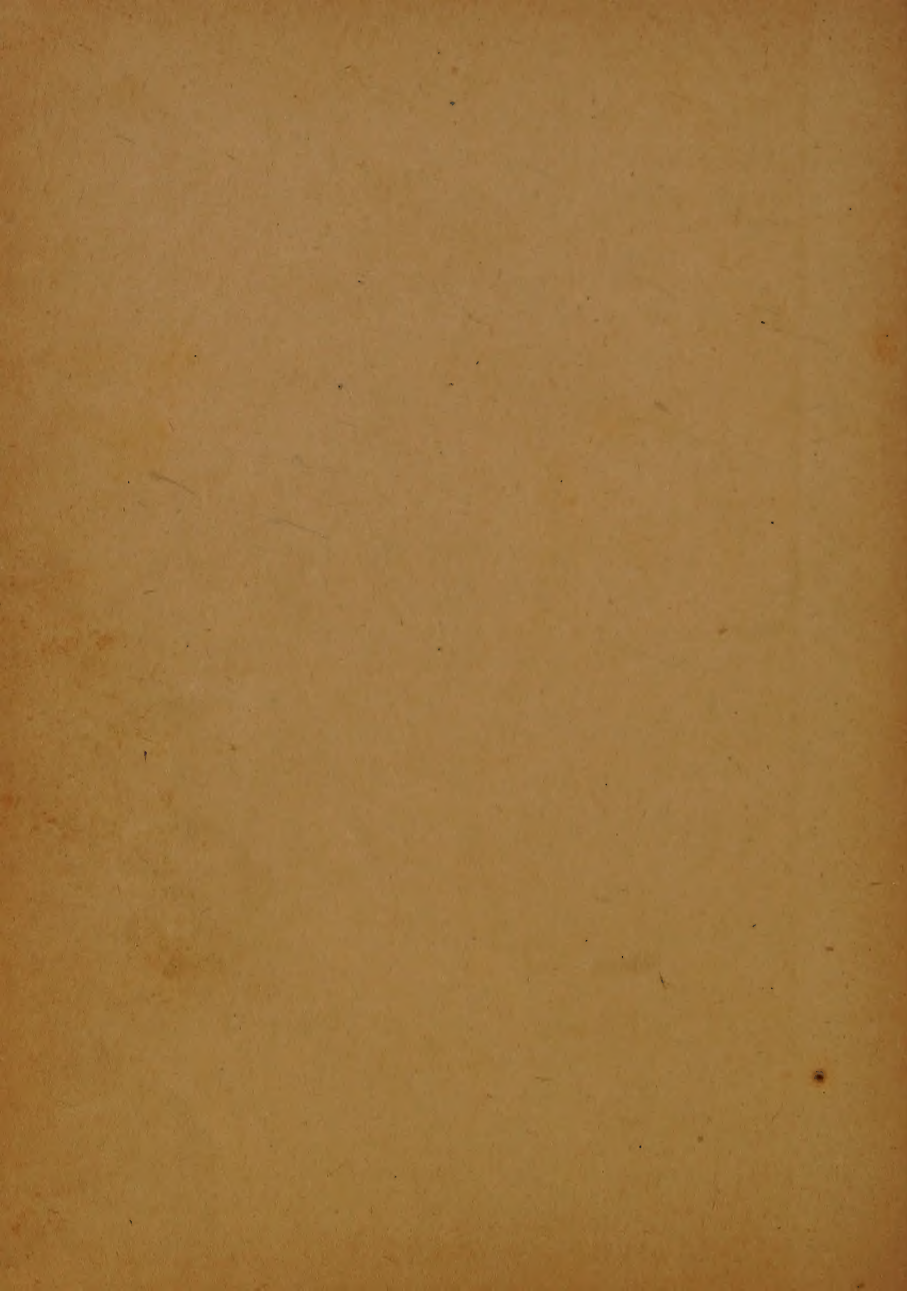
$2 + 0 = 2$	$3 + 0 = 3$	$4 + 0 = 4$	$5 + 0 = 5$
$2 + 1 = 3$	$3 + 1 = 4$	$4 + 1 = 5$	$5 + 1 = 6$
$2 + 2 = 4$	$3 + 2 = 5$	$4 + 2 = 6$	$5 + 2 = 7$
$2 + 3 = 5$	$3 + 3 = 6$	$4 + 3 = 7$	$5 + 3 = 8$
$2 + 4 = 6$	$3 + 4 = 7$	$4 + 4 = 8$	$5 + 4 = 9$
$2 + 5 = 7$	$3 + 5 = 8$	$4 + 5 = 9$	$5 + 5 = 10$
$2 + 6 = 8$	$3 + 6 = 9$	$4 + 6 = 10$	$5 + 6 = 11$
$2 + 7 = 9$	$3 + 7 = 10$	$4 + 7 = 11$	$5 + 7 = 12$
$2 + 8 = 10$	$3 + 8 = 11$	$4 + 8 = 12$	$5 + 8 = 13$
$2 + 9 = 11$	$3 + 9 = 12$	$4 + 9 = 13$	$5 + 9 = 14$

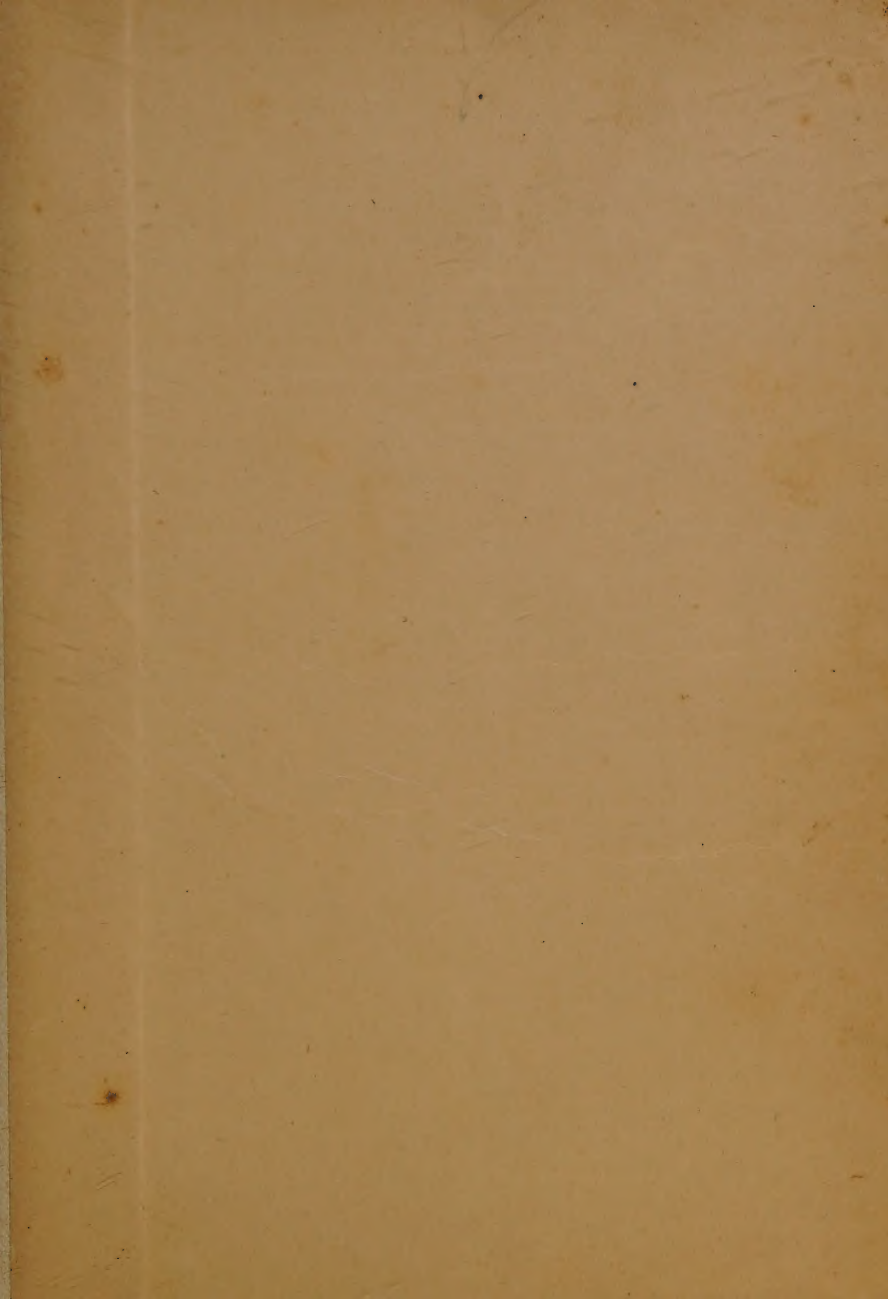
$6 + 0 = 6$	$7 + 0 = 7$	$8 + 0 = 8$	$9 + 0 = 9$
$6 + 1 = 7$	$7 + 1 = 8$	$8 + 1 = 9$	$9 + 1 = 10$
$6 + 2 = 8$	$7 + 2 = 9$	$8 + 2 = 10$	$9 + 2 = 11$
$6 + 3 = 9$	$7 + 3 = 10$	$8 + 3 = 11$	$9 + 3 = 12$
$6 + 4 = 10$	$7 + 4 = 11$	$8 + 4 = 12$	$9 + 4 = 13$
$6 + 5 = 11$	$7 + 5 = 12$	$8 + 5 = 13$	$9 + 5 = 14$
$6 + 6 = 12$	$7 + 6 = 13$	$8 + 6 = 14$	$9 + 6 = 15$
$6 + 7 = 13$	$7 + 7 = 14$	$8 + 7 = 15$	$9 + 7 = 16$
$6 + 8 = 14$	$7 + 8 = 15$	$8 + 8 = 16$	$9 + 8 = 17$
$6 + 9 = 15$	$7 + 9 = 16$	$8 + 9 = 17$	$9 + 9 = 18$

In schools where the entire multiplication table is taught before taking up a formal textbook, the following table may be used.

$1 \times 2 = 2$	$1 \times 3 = 3$	$1 \times 4 = 4$	$1 \times 5 = 5$
$2 \times 2 = 4$	$2 \times 3 = 6$	$2 \times 4 = 8$	$2 \times 5 = 10$
$3 \times 2 = 6$	$3 \times 3 = 9$	$3 \times 4 = 12$	$3 \times 5 = 15$
$4 \times 2 = 8$	$4 \times 3 = 12$	$4 \times 4 = 16$	$4 \times 5 = 20$
$5 \times 2 = 10$	$5 \times 3 = 15$	$5 \times 4 = 20$	$5 \times 5 = 25$
$6 \times 2 = 12$	$6 \times 3 = 18$	$6 \times 4 = 24$	$6 \times 5 = 30$
$7 \times 2 = 14$	$7 \times 3 = 21$	$7 \times 4 = 28$	$7 \times 5 = 35$
$8 \times 2 = 16$	$8 \times 3 = 24$	$8 \times 4 = 32$	$8 \times 5 = 40$
$9 \times 2 = 18$	$9 \times 3 = 27$	$9 \times 4 = 36$	$9 \times 5 = 45$
$10 \times 2 = 20$	$10 \times 3 = 30$	$10 \times 4 = 40$	$10 \times 5 = 50$

$1 \times 6 = 6$	$1 \times 7 = 7$	$1 \times 8 = 8$	$1 \times 9 = 9$
$2 \times 6 = 12$	$2 \times 7 = 14$	$2 \times 8 = 16$	$2 \times 9 = 18$
$3 \times 6 = 18$	$3 \times 7 = 21$	$3 \times 8 = 24$	$3 \times 9 = 27$
$4 \times 6 = 24$	$4 \times 7 = 28$	$4 \times 8 = 32$	$4 \times 9 = 36$
$5 \times 6 = 30$	$5 \times 7 = 35$	$5 \times 8 = 40$	$5 \times 9 = 45$
$6 \times 6 = 36$	$6 \times 7 = 42$	$6 \times 8 = 48$	$6 \times 9 = 54$
$7 \times 6 = 42$	$7 \times 7 = 49$	$7 \times 8 = 56$	$7 \times 9 = 63$
$8 \times 6 = 48$	$8 \times 7 = 56$	$8 \times 8 = 64$	$8 \times 9 = 72$
$9 \times 6 = 54$	$9 \times 7 = 63$	$9 \times 8 = 72$	$9 \times 9 = 81$
$10 \times 6 = 60$	$10 \times 7 = 70$	$10 \times 8 = 80$	$10 \times 9 = 90$







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